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NPIC/R-201/64  
March 1964

PHOTOGRAPHIC INTERPRETATION REPORT

OAK - PART II  
MISSION 4006  
12-14 MARCH 1964



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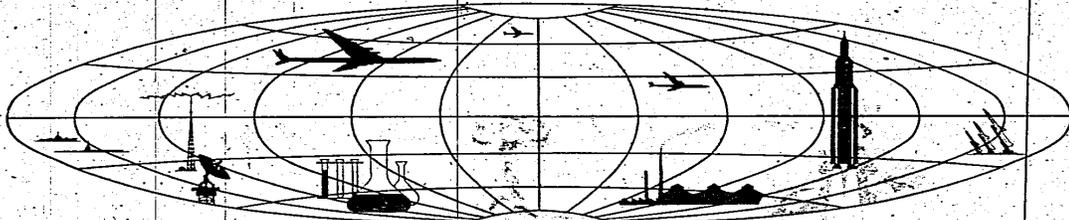


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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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## OAK - PART II

# MISSION 4006

### PREFACE

THIS IS THE SECOND OF AN ESTIMATED TWO DAILY OAK REPORTS BASED ON MISSION 4006 AND DEALING WITH THE HIGHEST-PRIORITY INTELLIGENCE ITEMS APPEARING IN THE COMOR TARGET LIST. THIS REPORT, COVERING THE OAK REPORTING PERIOD FROM 0800 HOURS, 19 MAR 64, TO 1900 HOURS, 19 MAR 64, PRESENTS INFORMATION ONLY ON THOSE COMOR TARGET OBSERVED

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT, AND WITHIN EACH SUBJECT ON THE PHOTOGRAPHY.

BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. ALL TARGETS IN THIS REPORT ARE LOCATED IN THE USSR UNLESS OTHERWISE INDICATED.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH AN A FOR ASCENDING (SOUTH-TO-NORTH) OR D FOR DESCENDING (NORTH-TO-SOUTH). INDEX NUMBERS ARE INDICATED BY THE LETTER I. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE AS FOLLOWS -- C (CLEAR), SC (SCATTERED CLOUDS), HC (HEAVY CLOUDS), H (HAZE), CS (CLOUD SHADOW), SD (SEMIDARKNESS), O (OBLIQUITY), S (SNOW), PQ (POOR IMAGE QUALITY).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY FROM MISSION 4006 IS BEING ACCOMPLISHED IN A SHORT TIME AND OFTEN WITHOUT THE AID OF PRECISE ANALYTICAL AND MENSURAL EQUIPMENT COMMONLY EMPLOYED IN DETAILED PHOTOGRAPHIC ANALYSIS. CONSEQUENTLY, ALTHOUGH THE INFORMATION PRESENTED HEREIN IS ESSENTIALLY ACCURATE, FUTURE DETAILED ANALYSIS MAY SOMEWHAT ALTER PORTIONS OF THE INFORMATION.

### STATUS OF COMOR TARGETS READOUT

A TOTAL OF 143 COMOR TARGETS WERE OBSERVED AND REPORTED IN OAKS PART I & II. THOSE COMOR TARGETS NOT REPORTED WERE NOT COVERED OR NOT OBSERVED BECAUSE OF ADVERSE WEATHER OR OTHER CONDITIONS.

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MISSILES

[REDACTED] YURYA ICBM LAUNCH AREA C 5912N 04928E

NO SIGNIFICANT CHANGE OBSERVED IN LAUNCH AREA C (SITE 3) SINCE MISSION [REDACTED], HOWEVER, ADDITIONAL DETAILS CAN BE DISCERNED. THERE IS A TALL TOWER ON EACH SIDE OF EACH PAD. THERE IS AN ERECTOR ON EACH PAD, BUT NO ACTIVITY. THERE ARE SEVERAL VEHICLES PARKED AT THE TERMINUS OF THE CENTER ROAD.

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[REDACTED] 25X1

[REDACTED] YURYA ICBM LAUNCH AREA D 5915N 04924E

NO SIGNIFICANT CHANGE IN FACILITIES SINCE MISSION [REDACTED] HOWEVER, ADDITIONAL DETAILS CAN BE DISCERNED. LAUNCH AREA D (SITE 4) IS SECURED BY TRIPLE FENCING. AN ERECTED MISSILE IS LOCATED ON THE LEFT PAD AND THERE ARE AT LEAST EIGHT SUPPORT VEHICLES LOCATED NEAR THE BASE OF THE MISSILE. AN ERECTOR IS LOCATED ON THE RIGHT PAD. THERE IS A TOWER LOCATED ON EACH SIDE OF EACH PAD. THE OUTBOARD TOWERS APPEAR MORE MASSIVE AND TALLER. THERE ARE AT LEAST 10 VEHICLES OF VARIOUS SIZES LOCATED AT THE TERMINUS OF THE CENTER ROAD. A PATTERN OF INTERSECTING LINES HAS BEEN CLEARED IN THE WOODS FORWARD OF THE LAUNCH AREA. ONE LARGE GARAGE-TYPE BUILDING IS UNDER CONSTRUCTION IN THE SITE SUPPORT FACILITY.

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(ATTACHMENT 1)

[REDACTED] 25X1

25X1

[REDACTED] YURYA ICBM LAUNCH AREA E 5922N 04917E

THERE IS NO SIGNIFICANT CHANGE IN LAUNCH AREA E (SITE 5) SINCE MISSION [REDACTED] ADDITIONAL DETAILS CAN BE DISCERNED. THE AREA IS TRIPLE FENCED. ALL THREE SILOS ARE CLOSED. THREE SMALL STRUCTURES ARE ADJACENT TO EACH SILO. THE RIM FACILITY EAST OF THE LAUNCH SITE STILL HAS ONE BUILDING UNDER CONSTRUCTION. APPROXIMATELY 20 VEHICLES ARE IN THE AREA.

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(ATTACHMENT 2)

[Redacted]

25X1

25X1

[Redacted]

YURYA ICBM LAUNCH AREA F 5921N 04913E

ERECTORS ARE POSITIONED ON BOTH LAUNCH PADS AT LAUNCH AREA F (SITE 7). A TALL TOWER AND AN ADJACENT SHORT POLE ARE POSITIONED AT OPPOSITE CORNERS OF EACH PAD. TEN LARGE AND A FEW SMALL VEHICLES ARE PARKED ALONG THE FORWARD LOOP ROAD AND FIVE LARGE VEHICLES ARE PARKED TO THE REAR OF THE CENTER ROAD.

[Redacted]

25X2

(ATTACHMENT 3)

[Redacted]

25X1

25X1

[Redacted]

YURYA ICBM LAUNCH AREA I 5921N 04924E

THERE HAS BEEN NO SIGNIFICANT CHANGE IN LAUNCH AREA I (SITE 11) SINCE MISSION [Redacted] HOWEVER, ADDITIONAL DETAILS CAN BE DISCERNED. THERE IS A TOWER ADJACENT TO EACH PAD. THE FORWARD CENTER BUILDING IS THE CONTROL BUILDING. THE REAR CENTER BUILDING IS A DRIVE-IN BUILDING. THE CANTED BUILDINGS ADJACENT TO THE PADS HAVE ONLY PERSONNEL ENTRANCES AND A ROW OF PROBABLE VENTS ALONG THE TOP. THERE IS A PATTERN OF INTERSECTING LINES IN THE WOODS FORWARD OF THE LAUNCH PADS.

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(ATTACHMENT 4)

[Redacted]

25X1

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[REDACTED] YURYA ICBM LAUNCH AREA K 5913N 04918E

LAUNCH AREA K (SITE 10) REMAINS IN A MID-STAGE OF CONSTRUCTION. DETAILS WITHIN THE EXCAVATION ARE NOT DISCERNIBLE BUT THE THREE SILOS CAN BE SEEN IN THE EXCAVATION AND THE CONTROL BUNKER APPEARS TO BE UNDER CONSTRUCTION. THREE CONSTRUCTION RAMPS ARE AT THE SIDE OF THE EXCAVATION.

THERE ARE NOW APPROXIMATELY 8 BUILDINGS IN THE SITE SUPPORT FACILITY.

25X1

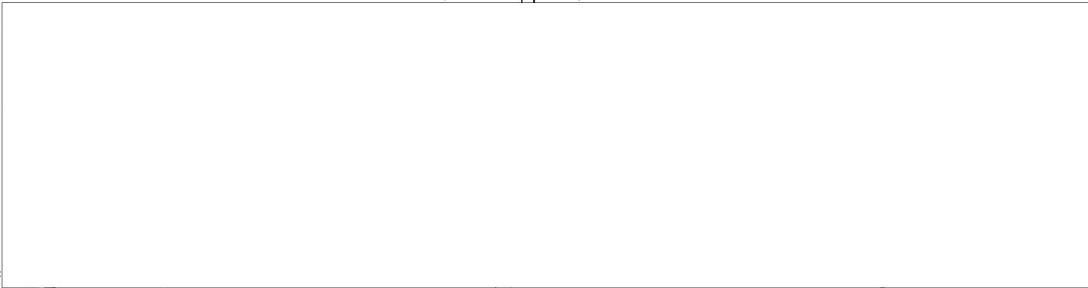
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[REDACTED] YURYA ICBM MAIN SUPPORT FACILITY 5903N 04919E

NO SIGNIFICANT CHANGE SINCE MISSION [REDACTED] ADDITIONAL DETAILS CAN BE SEEN IN THE ADMINISTRATION, HOUSING, LIQUID STORAGE, OPEN STORAGE, AND FABRICATION AREAS. THE RAIL NETWORK THROUGHOUT THE FACILITY IS CLEARLY DEFINED.

25X1

25X1



25X2

25X1

[REDACTED] TYURATAM MISSILE TEST CENTER 4550N 06318E

25X1

CENTRAL SUPPORT FACILITY -- THE SECURED AREA LOCATED AT THE TERMINUS OF THE RAIL SPUR CAN NOW BE IDENTIFIED AS TRIPLE FENCED. THE AREA CONTAINS A STEP-ROOF BUILDING WITH FOUR LEVELS AND THREE PROBABLE BUNKERS NEAR THE EASTERN END. NO OTHER

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## SIGNIFICANT CHANGES OR ADDITIONS OBSERVED.

THE ONLY SIGNIFICANT ADDITION IN THE AREA OF UNIDENTIFIED CONSTRUCTION ACTIVITY LOCATED BETWEEN COMPLEXES A AND B IS THE COMPLETION OF THE DOUBLE FENCING.

OTHER TTMTc READOUTS ARE LISTED SEPARATELY IN OAK PART I.  
(ATTACHMENTS 5 & 6)

25X1

[REDACTED] YOSHKAR-OLA ICBM LAUNCH AREA A 5635N 04810E

25X1

CONSIDERABLE ACTIVITY IS APPARENT AT LAUNCH AREA A (SITE 1). A LONG DARK OBJECT IS OBSERVED ON THE RIGHT PAD WHICH HAS AT LEAST THREE LARGE AND SEVEN SMALLER VEHICLES NEARBY. FIVE LARGE VEHICLES ARE ON THE LOOP ROAD FORWARD OF THE RIGHT PAD. TWO TALL TOWERS ARE LOCATED AT OPPOSITE CORNERS OF THIS PAD. AN ERECTOR/SHELTER IS LOCATED ON THE LEFT PAD. SIX LARGE AND 2 SMALL VEHICLES ARE ON THE FORWARD END OF THE PAD AND THE ROAD JUST FORWARD OF THE PAD. TWO TALL TOWERS ARE ALSO ADJACENT TO THIS PAD. AN EARTH-MOUNDED BUNKER AND 3 BUILDINGS WITH REVETTING ON THREE SIDES ARE LEFT OF THE CENTER SERVICE ROAD. SEVERAL SMALL OBJECTS ARE VISIBLE ON THE TOPS OF THE BUILDINGS.

THE SITE SUPPORT FACILITY IS OBSCURED BY CLOUD SHADOW.

25X1

25X1

[REDACTED] YOSHKAR-OLA ICBM LAUNCH AREA E 5633N 04813E

LAUNCH AREA E (SITE 5) -- IDENTIFICATION ONLY.

25X1

25X1

[REDACTED] YOSHKAR-OLA ICBM MAIN SUPPORT FACILITY 5634N 04803E

IDENTIFICATION ONLY.

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25X1

[Redacted]

25X1

[Redacted]

OMSK ICBM LAUNCH AREA A 5509N 07338E

LAUNCH AREA A (SITE 1), A TYPE IIIB LAUNCH SITE, IS NOW IN A LATE STAGE OF CONSTRUCTION. THE CONTROL BUNKER AND LAUNCH SILOS APPEAR TO BE COMPLETELY BACKFILLED. THE EASTERMOST SILO COVER IS OPEN. THE OTHER TWO ARE CLOSED. NO OBJECTS CAN BE IDENTIFIED IN THE OPEN SILO. THERE ARE SIX LARGE BUILDINGS AND SEVERAL SMALLER ONES SCATTERED THROUGHOUT THE LAUNCH SITE. THE LOOP ROAD HAS BEEN CLEARED AND PROBABLY PAVED. THERE IS LITTLE TRACK ACTIVITY APPARENT WITHIN THIS LOOP PATTERN. NO ELECTRONICS FACILITY CAN BE IDENTIFIED.

25X2

[Redacted]

[Redacted]

25X1

25X1

[Redacted]

OMSK ICBM LAUNCH AREA B 5511N 07333E

LAUNCH AREA B (SITE 2), A TYPE III B LAUNCH SITE, IS IN AN EARLY STAGE OF CONSTRUCTION.

THE EXCAVATION IS PARTIALLY SNOW-FILLED AND NO ACTIVITY IS APPARENT. THIS EXCAVATION HAS NO RECOGNIZABLE SHAPE. THERE ARE SEVERAL SMALL UNIDENTIFIED OBJECTS VISIBLE AROUND IT. FOUR BARRACKS-TYPE BUILDINGS ARE LOCATED TO THE WEST ALONG THE ACCESS ROAD, WHICH HAS NOT BEEN CLEARED. NO ACTIVITY APPARENT ON THE ROAD OR IN THE BARRACKS AREA.

[Redacted]

25X1

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25X1

[REDACTED] OMSK ICBM LAUNCH AREA C 5511N 07340E  
THERE IS NO EVIDENCE OF A LAUNCH AREA OR ANY  
CONSTRUCTION ACTIVITY AT THIS LOCATION.

[REDACTED] 25X1

[REDACTED] OMSK ICBM MAIN SUPPORT FACILITY 5503N 07330E  
NO SIGNIFICANT CHANGE SINCE MISSION [REDACTED]  
THE ROADS HAVE BEEN CLEARED OF SNOW AND ACTIVITY IS  
APPARENT WITHIN THE FACILITY.

[REDACTED] 25X1

[REDACTED] OMSK ICBM R/R TRANSFER POINT 5505N 07334E  
NO SIGNIFICANT CHANGE OBSERVED ON NON-STEREO  
PHOTOGRAPHY SINCE MISSION [REDACTED] CONSTRUCTION  
CONTINUES AT THE UNIDENTIFIED AREA APPROXIMATELY 1,200  
FT TO THE NORTH. THE ROADS HAVE BEEN CLEARED OF SNOW.

25X1

[REDACTED] 25X1

[REDACTED] PERM ICBM LAUNCH AREA A 5741N 05613E  
NO APPARENT CHANGE AT LAUNCH AREA A (SITE 1) SINCE  
MISSION [REDACTED] HOWEVER, SNOW, CLOUD COVER,  
AND OBLIQUE PHOTOGRAPHY PRECLUDE DETAILED  
INTERPRETATION.

[REDACTED] 25X1

[REDACTED] 25X1

[REDACTED] PERM ICBM LAUNCH AREA B 5743N 05555E  
NO APPARENT CHANGE AT LAUNCH AREA B (SITE 2)  
SINCE MISSION [REDACTED] HOWEVER, SNOW, CLOUD  
COVER, AND OBLIQUE PHOTOGRAPHY PRECLUDE DETAILED  
INTERPRETATION.

[REDACTED] 25X1

[REDACTED] 25X1

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25X1

PERM ICBM LAUNCH AREA C 5737N 05607E  
 LAUNCH AREA C (SITE 3) -- IDENTIFICATION ONLY.

25X1

PERM ICBM LAUNCH AREA D 5745N 05600E  
 LAUNCH AREA D (SITE 6), A TYPE IID SITE, IS APPARENTLY COMPLETE. AN ERECTOR/SHELTER IS DISCERNIBLE ON EACH PAD. SNOW COVER PRECLUDES FURTHER INTERPRETATION.

25X1

PERM ICBM LAUNCH AREA E 5741N 05548E

LAUNCH AREA E (SITE 5), A TYPE IID SITE, IS APPARENTLY COMPLETE. SNOW-COVERED, NON-STEREO, OBLIQUE PHOTOGRAPHY REVEALS AN ERECTOR/SHELTER ON EACH PAD AND A THIRD MISSILE-READY BUILDING LOCATED BEHIND AND IN LINE WITH THE LEFT PAD. A NUMBER OF BUILDINGS HAVE BEEN ADDED AT THE SITE SUPPORT FACILITY SINCE

25X1

25X1

PERM ICBM LAUNCH AREA F 5741N 05604E

LAUNCH AREA F (SITE 4), A TYPE IIIA SITE, IS IN A MID-STAGE OF CONSTRUCTION. VISIBLE WITHIN THE EXCAVATION AND ITS NOTCH ARE THE CONTROL BUNKER, TWO EQUIPMENT BUNKERS, AND CONSTRUCTION RAMPS LEADING TO EACH OF THE THREE SILOS. THREE UNIDENTIFIED OBJECTS ARE ADJACENT TO THE EXCAVATION. A LARGE NUMBER OF BUILDINGS HAVE BEEN ADDED TO THE SITE SUPPORT FACILITY SINCE MISSION [REDACTED] SNOW, CLOUD COVER AND OBLIQUE PHOTOGRAPHY PRECLUDE DETAILED INTERPRETATION.

25X1

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25X1

PERM ICBM MAIN SUPPORT FACILITY 5742N 05619E

NO SIGNIFICANT CHANGE APPARENT IN THE COMPLEX

11

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25X1

SUPPORT FACILITY SINCE MISSION [REDACTED]  
SNOW, CLOUD COVER, AND OBLIQUE PHOTOGRAPHY PRECLUDE  
DETAILED INTERPRETATION.

25X1

25X1

PERM ICBM R/R TRANSFER POINT 5742N 05619E

NO APPARENT CHANGE SINCE MISSION [REDACTED]

25X1

GLADKAYA ICBM LAUNCH AREA C 5630N 09158E

LAUNCH AREA C (SITE 4), A CONFIRMED TYPE IIIA SITE,  
REMAINS IN AN EARLY STAGE OF CONSTRUCTION. NO  
ACTIVITY HAS BEEN OBSERVED AT THE SITE SINCE  
MISSION [REDACTED]

25X1

25X1

25X1

NOVOSIBIRSK ICBM SUPPORT FACILITY 5516N 08259E

COMPLEX SUPPORT FACILITY PARTIALLY COVERED.  
NO CHANGE DISCERNIBLE.

25X1

DOLVYANNAYA ICBM LAUNCH AREA A 5054N 11549E

25X1

NO SIGNIFICANT CHANGE SINCE MISSION [REDACTED] AT  
LAUNCH AREA A (SITE 1), HOWEVER, MORE DETAIL IS  
DISCERNIBLE. THE SILO COVERS ARE RECTANGULAR PROBABLE  
CONCRETE SLABS THAT MOVE TO ONE SIDE. ONE OF THE SILO  
COVERS IS IN THE OPEN POSITION AND THE ROUND SILO  
OPENING CAN BE SEEN. NO OBJECTS CAN BE IDENTIFIED IN  
THE OPENING. THE SPRAY POND, OUTSIDE THE LOOP ROAD,  
APPEARS TO BE EMPTY. EIGHT LONG BUILDINGS SOUTH OF  
THE LAUNCH SITE ARE BEING EARTH-MOUNDED. SIX ARE  
COMPLETED WITH TWO TO BE COVERED. ENTRANCES TO SEVEN  
OF THESE BUILDINGS APPEAR SMALL AND PARTIALLY  
PROTECTED. THE RIM FACILITY APPEARS COMPLETE. AN  
OBJECT/VEHICLE IS IN THE ENTRANCE TO THE MISSILE READY  
BUILDING.

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NO SIGNIFICANT CHANGES IN THE SITE SUPPORT FACILITY. UNIDENTIFIED VEHICLES ARE OBSERVED ON THE COMPLEX MAIN ROAD.

25X1

25X1

[REDACTED]

OLOVYANNAYA ICBM LAUNCH AREA B 5056N 11546E

LAUNCH AREA B (SITE 2) IS STILL IN A MID-STAGE OF CONSTRUCTION. NO SIGNIFICANT CHANGES ARE APPARENT SINCE MISSION [REDACTED]. CONSTRUCTION RAMPS ARE APPARENT AT THE THREE SILOS. THE TWO EQUIPMENT BUNKERS BETWEEN THE SILOS ARE APPARENTLY COMPLETE OR NEARLY COMPLETE. THE PASSAGEWAY BETWEEN THE SILOS IS UNDER CONSTRUCTION. THE CONTROL BUNKER IS IN AN EARLY STAGE OF CONSTRUCTION WITH TWO WALLS IN PLACE. THERE ARE APPROXIMATELY EIGHT PROBABLE CONSTRUCTION BUILDINGS IN THE VICINITY OF THE EXCAVATION. CONSTRUCTION ACTIVITY SOUTH OF THE SITE AND EAST OF THE COMPLEX MAIN ROAD MAY BE THE EARLY STAGES OF THE RIM FACILITY.

25X1

25X1

[REDACTED]

OLOVYANNAYA ICBM LAUNCH AREA C 5048N 11550E

NO SIGNIFICANT CHANGES SINCE MISSION [REDACTED] AT LAUNCH AREA C (SITE 3), BUT ADDITIONAL DETAILS ARE DISCERNIBLE. CONSTRUCTION RAMPS ARE APPARENT AT ALL THREE SILOS. THE FOUR WALLS OF THE RIGHT EQUIPMENT BUNKER ARE UNDER CONSTRUCTION. THE LEFT EQUIPMENT BUNKER IS NOT YET EVIDENT. THE PASSAGEWAY CONNECTING THE SILOS IS UNDER CONSTRUCTION. THE CONTROL BUNKER IS IN AN EARLY STAGE OF CONSTRUCTION WITH PART OF THE BACK WALL IN PLACE. ABOUT EIGHT VARIOUS-SIZED, PROBABLE CONSTRUCTION BUILDINGS ARE IN THE VICINITY OF THE EXCAVATION.

25X1

CONSTRUCTION ACTIVITY NE OF THE LAUNCH SITE MAY BE A RIM FACILITY IN AN EARLY STAGE OF CONSTRUCTION. CONSTRUCTION ACTIVITY CONTINUES EAST OF THE LAUNCH SITE WITH ONE LARGE AND SEVERAL SMALLER BUILDINGS IN VARIOUS STAGES OF CONSTRUCTION.

THERE ARE ABOUT 40 BUILDINGS IN THE SITE SUPPORT

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FACILITY. NO NEW CONSTRUCTION APPARENT. A PROBABLE CONSTRUCTION SUPPORT AREA IS SOUTH OF THE LAUNCH AREA ALONG THE COMPLEX MAIN ROAD. IT CONTAINS NUMEROUS VARIOUS-SIZED BUILDINGS, A BATCH PLANT AND A MOTOR/EQUIPMENT POOL.

(ATTACHMENT 7)

25X1

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[REDACTED] OLOVYANNAYA ICBM MAIN SUPPORT FACILITY 5048N 11550E

25X1

NO SIGNIFICANT CHANGES ARE APPARENT SINCE MISSION [REDACTED] IN THE COMPLEX SUPPORT FACILITY AND RAIL-TO-ROAD TRANSFER POINT. HOWEVER, CONSIDERABLE ADDITIONAL DETAIL IS APPARENT. OPEN STORAGE OF MATERIALS CAN BE IDENTIFIED AND IN SOME CASES THE CONFIGURATIONS ESTABLISHED. A RAIL-THROUGH BUILDING IS PRESENT ON THE SPUR LEADING INTO THE RAILHEAD AND STORAGE AREA. THE LOOP ROAD IS READILY APPARENT AT THE TRANSFER POINT AND TWO LARGE, TWO SMALL AND ONE POSSIBLE EARTH-MOUNDED STRUCTURES ARE WITHIN THE LOOP. APPROXIMATELY 10 OTHER BUILDINGS, FIVE OF THEM LARGE, ARE LOCATED NEAR THE TRANSFER POINT.

25X1

[REDACTED] MUKACHEVO MRBM LAUNCH SITE 1 4819N 02231E

COMPLETED RECTANGULAR TYPE I MRBM LAUNCH SITE WITH FOUR CIRCULAR PADS OBSERVED. TWO READY BUILDINGS OBSERVED, ONE SERVING EACH PAIR OF PADS. SUPPORT AREA CONTAINS APPROXIMATELY 20 BUILDINGS. LAUNCH SITE IS DOUBLE FENCED. SOUTHWESTERN LAUNCH PAD HAS SEVERAL SMALL UNIDENTIFIED OBJECTS ON IT.

SCATTERED CLOUDS AND HAZE PRECLUDE FURTHER INTERPRETATION.

25X1

25X1

[REDACTED] BORKHOV MRBM LAUNCH SITE 2 5224N 03038E

THIS TYPE II LAUNCH SITE IS COVERED BY EXCELLENT

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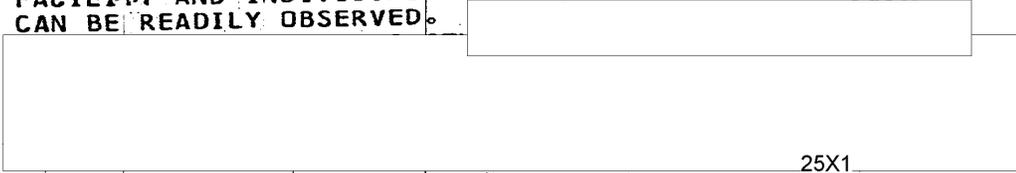
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QUALITY NON-STEREO CLOUD-FREE PHOTOGRAPHY. THE ROADS AT THE LAUNCH SITE ARE PARTIALLY CLEARED OF SNOW AND NUMEROUS VEHICLES ARE VISIBLE.

THE ERECTORs ARE NOT POSITIONED ON THE PADS, HOWEVER, A GROUP OF 5 VEHICLES MEASURING APPROXIMATELY 55 FEET IN LENGTH, PROBABLY THE ERECTORs, ARE NEAR THE SITE ACCESS ROAD BEHIND THE READY BUILDINGS. AT LEAST 15 VEHICLES ARE VISIBLE AT THE SITE SUPPORT FACILITY AND INDIVIDUAL COMPONENTS OF THIS SECTION CAN BE READILY OBSERVED.

25X2

25X2



25X1

25X1

BORKHOV MRBM LAUNCH SITE 1 5218N 03043E

THIS TYPE II SITE IS COVERED BY EXCELLENT CLOUD-FREE NON-STEREO PHOTOGRAPHY. THE ROADS AND PADS HAVE BEEN CLEARED OF SNOW, HOWEVER, THE ERECTORs ARE NOT ON THE PADS. FIVE PROBABLE ERECTORs, EACH 55 FT LONG, ARE PARKED NEXT TO A ROAD AT THE REAR OF THE READY BUILDINGS. A FEW OTHER SMALLER VEHICLES ARE VISIBLE THROUGHOUT THE LAUNCH SITE. THE READY BUILDINGS ARE DRIVE-IN, DEFINITELY NOT DRIVE-THROUGH.

ALL COMPONENTS AT THE SITE SUPPORT FACILITY ARE CLEARLY VISIBLE, INCLUDING A LINE OF FIVE GABLE-ROOFED BARRACKS, A MOTOR POOL WITH TWO LARGE FLAT-ROOFED BUILDINGS AND MORE THAN 20 VEHICLES AND NUMEROUS OTHER SUPPORT AND TECHNICAL BUILDINGS. THE RECTANGULAR CLEARING PREVIOUSLY IDENTIFIED AS A HELICOPTER PAD IS ACTUALLY A SLUDGE DRYING

25X2



25X1

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[REDACTED] MUKACHEVO MRBM LAUNCH SITE 2 : 4819N 02237E

COMPLETED RECTANGULAR TYPE I MRBM LAUNCH SITE WITH FOUR CIRCULAR PADS WITHOUT ERECTOR. TWO READY BUILDINGS. ONE SERVING EACH PAIR OF PADS OBSERVED. AREA APPEARS FENCED. SUPPORT AREA IS NOT DISCERNIBLE DUE TO DARKNESS. NO ACTIVITY OBSERVED.

25X1

25X1

[REDACTED] KURGANCHA MRBM LAUNCH SITE 1 : 3937N 06557E

COMPLETE, SECURED, TYPE I, IN-LINE MRBM LAUNCH SITE WITH FOUR ROUND PADS. THERE IS AN ERECTOR ON EACH PAD. ONE PAD IS IN LINE WITH THE READY BUILDING. THE OTHER THREE ARE POSITIONED AT AN ANGLE OF APPROXIMATELY 30 DEGREES TO THE READY BUILDING. AN ASSOCIATED DIRT RUNWAY AND 5 SINGLE ENGINE LIAISON-TYPE AIRCRAFT ARE IMMEDIATELY ADJACENT TO THE EASTERN EDGE OF THE LAUNCH AREA. THE FOUR READY BUILDINGS ARE GABLE-ROOFED AND ARE NOT EARTH-MOUNDED. THERE IS A SMALL BUILDING ADJACENT TO THE ROAD IN FRONT OF EACH LAUNCH PAD. THE TECHNICAL SECTION WHICH IS SEPARATED INTO TWO AREAS CONTAINS 12 BUILDINGS. THE SUPPORT AREA CONTAINS 8 BARRACKS-TYPE AND 10 OTHER BUILDINGS.

25X1

25X1

[REDACTED] KURGANCHA MRBM LAUNCH SITE 2 : 3937N 06554E

COMPLETE, SECURED TYPE I IN-LINE MRBM LAUNCH SITE WITH FOUR ROUND PADS OBSERVED. TWO OF THE PADS HAVE ERECTOR. CABLE SCARS RUN TO THE LAUNCH PADS FROM FOUR READY BUILDINGS, EACH WITH AN ADJACENT SMALL BUILDING. A LONG NARROW CONTROL BUILDING IS LOCATED TO THE REAR OF AND BETWEEN EACH PAIR OF READY BUILDINGS. TWO OF THE READY BUILDINGS AND ONE OF THE CONTROL BUILDINGS HAVE TWO SMALL EXTENSIONS PROTRUDING FROM ONE SIDE. THE TECHNICAL SECTION CONTAINS EIGHT BUILDINGS. THE VEHICLE MAINTENANCE AND STORAGE SECTION CONTAINS APPROXIMATELY 10 BUILDINGS. THE ADMINISTRATION AND HOUSING SECTION CONTAINS EIGHT

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BARRACKS-TYPE BUILDINGS AND APPROXIMATELY 20 OTHER BUILDINGS.

[Redacted]

25X1

25X1

LEBEDIN IRBM LAUNCH SITE 1 5033N 03426E  
IDENTIFICATION ONLY.

[Redacted]

25X1

LEBEDIN IRBM LAUNCH SITE 2 5035N 03424E

THIS TYPE II IRBM LAUNCH AREA CONTAINS A LAUNCH SITE WITH FOUR ELONGATED LAUNCH PADS, EACH WITH AN ERECTOR AND FOUR READY BUILDINGS. A FIFTH BUILDING IS CENTRALLY LOCATED AND IN LINE WITH THE READY BUILDINGS.

[Redacted]

25X2

AREA. A MOTOR POOL CONTAINING AT LEAST THREE BUILDINGS AND TWO ROWS OF VEHICLES IS LOCATED ABOUT 800 FT EAST OF THE LAUNCH SITE. HAZE PRECLUDES A FURTHER INTERPRETATION.

[Redacted]

25X1

25X1

ROZHDESTVENKA MRBM LAUNCH SITE 4547N 13343E

THIS TYPE II MRBM LAUNCH SITE APPEARS COMPLETE AND CONSISTS OF FOUR ELONGATED LAUNCH PADS, FOUR DRIVE-THROUGH READY BUILDINGS, AN ADDITIONAL DRIVE-THROUGH BUILDING WITH A POSSIBLE TRAVERSING CRANE AT THE WEST END, TWO CONTROL BUILDINGS (ONE BETWEEN EACH PAIR OF PADS), AND THREE ADDITIONAL BUILDINGS LOCATED BETWEEN EACH PAIR OF PADS ALONG THE

[Redacted]

25X2

25X2

TOP SECRET CHESS RUFF

NPIC/R-201/64

25X1



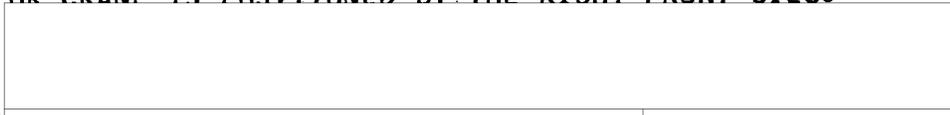
25X1



TAYBOLA IRBM LAUNCH SITE 1 6828N 03315E

THE TYPE IV LAUNCH SITE IS COVERED BY GOOD QUALITY STEREO, CLOUD-FREE PHOTOGRAPHY. ALL ROADS IN THE AREA HAVE BEEN CLEARED OF SNOW AND ALL THREE SILO COVERS ARE IN A CLOSED POSITION. TWO POSSIBLE VEHICLES ARE LOCATED INSIDE OF THE LAUNCH SITE AND A POSSIBLE TRUCK OR CRANE IS POSITIONED BY THE RIGHT FRONT SILO.

25X1



25X2



ACCESS ROAD FROM THE BARRACKS AREA AND CONSISTS OF A DISTINCTIVE ROAD PATTERN AND A LARGE FLAT-ROOFED BUILDING. SEVERAL ROWS OF VEHICLES ARE VISIBLE IN THIS AREA. A HEATING PLANT IS VISIBLE NEAR THE MOTOR POOL. THE TAYBOLA COMPLEX RAIL-TO-ROAD TRANSFER POINT IS COVERED BY GOOD QUALITY STEREO PHOTOGRAPHY AND CONSISTS OF A LOOP ROAD ALONGSIDE A RAIL SPUR AND ONE BUILDING, ALL SECURED BY A SOLID FENCE. NO RAIL CARS OR VEHICLES ARE VISIBLE WITHIN THE FENCED AREA.

25X1



25X1



TAYBOLA IRBM LAUNCH SITE 2 6830N 03323E

THIS TYPE IV LAUNCH SITE IS COVERED BY GOOD QUALITY CLOUD-FREE OBLIQUE PHOTOGRAPHY. STEREO COVERAGE IS POOR.

ALL THREE SILO COVERS AT THE LAUNCH SITE ARE CLOSED AND THE ROADS AROUND THE BUNKER AND THROUGHOUT THE LAUNCH AREA APPEAR TO BE SNOW CLEARED. NO VEHICLES ARE VISIBLE WITHIN THE LAUNCH SITE. THERE IS NO OBJECT POSITIONED TO THE RIGHT REAR OF THE CONTROL BUNKER.

25X2



25X2

TOP SECRET CHESS RUFF

NPIC/R-201/64

25X2

[REDACTED]

THE SITE SUPPORT FACILITY CONSISTS OF SIX BARRACKS AND AT LEAST 10 OTHER BUILDINGS. A PROBABLE MOTOR POOL IS LOCATED ACROSS THE ROAD FROM THE BARRACKS AND CONTAINS NUMEROUS PROBABLE VEHICLES POSITIONED NEAR A LARGE FLAT-ROOFED BUILDING.

[REDACTED]

25X1

[REDACTED] TYM MRBM LAUNCH SITE 3935N 06542E

COMPLETE, HARDENED, SECURED TYPE IV MRBM LAUNCH SITE HAS A LOOP ROAD WHICH SURROUNDS A BURIED CONTROL BUNKER AND SERVES FOUR SIMILAR SILO POSITIONS, EACH WITH A SIMILAR RECTANGULAR COVER. THIRTEEN ADDITIONAL BUILDINGS OF VARIOUS SIZES FORM A RECTANGLE AROUND THE LAUNCH SILO COVERS. ALL THESE BUILDINGS ARE SURROUNDED BY A RECTANGULAR ROAD PATTERN. THREE OTHER SMALL BUILDINGS ARE LOCATED WITHIN THE FENCED LAUNCH SITE. A GROUP OF APPROXIMATELY NINE BUILDINGS IS IMMEDIATELY ADJACENT TO THE EASTERN EDGE OF THE SECURITY FENCE. THE ADMINISTRATION AND HOUSING SECTION CONTAINS APPROXIMATELY 15 BUILDINGS. A SLUDGE DRYING BASIN IS NEAR THE WESTERN EDGE OF THE LAUNCH SITE.

[REDACTED]

SITE.

25X1

25X1

[REDACTED] TAYBOLA IRBM LAUNCH SITE 3 6825N 03329E

[REDACTED]

THIS TYPE IV SITE IS COVERED BY GOOD QUALITY CLOUD-FREE STEREO PHOTOGRAPHY AND REMAINS IN AN EARLY STAGE OF CONSTRUCTION. THE SITE ACCESS ROAD MAY HAVE BEEN CLEARED OF SNOW ALTHOUGH NO VEHICLES ARE EVIDENT IN THE VICINITY. THE SITE CONSISTS OF THREE SHALLOW EXCAVATIONS AND TWO CONSTRUCTION SUPPORT BUILDINGS. THERE IS NO APPARENT TRACKAGE OR DISRUPTION OF THE SNOW AT THE SITE. CONSTRUCTION OF THE CONTROL BUNKER AND

25X2

25X1

19

TOP SECRET CHESS RUFF

## TOP SECRET CHESS RUFF

NPIC/R-201/64

SILOS HAS NOT AS YET STARTED. A RECTANGULAR BUILDING IS LOCATED PERPENDICULAR TO THE ACCESS ROAD IN A POSITION SIMILAR TO THAT OF THE RIM BUILDING AT THE OTHER HARD MRBM AND IRBM LAUNCH SITES. THERE IS NO SECURITY FENCING EVIDENT.

THE SITE SUPPORT FACILITY CONSISTS OF FIVE BUILDINGS AND POSSIBLY A SIXTH UNDER CONSTRUCTION. ONE OF THE BUILDINGS APPEARS TO HAVE A FLAT ROOF WITH NO SNOW ON IT. OTHERWISE, THERE IS NO DISRUPTION OF THE SNOW IN THE VICINITY OF THE BUILDINGS.

25X1

25X1

LEBEDIN IRBM LAUNCH SITE 3 5038N 03427E

THIS TYPE III IRBM LAUNCH SITE CONTAINS FOUR ELONGATED PADS WITH A READY BUILDING DIRECTLY BEHIND EACH OF THE LAUNCH PADS. A FIFTH BUILDING IS CENTRALLY LOCATED IN LINE WITH A READY BUILDING. A CLEARING EAST OF THE EASTERNMOST READY BUILDING CONTAINS A SMALL BUILDING AND NUMEROUS VEHICLES. A CLASS C WARHEAD FACILITY IMMEDIATELY SOUTH OF THE READY BUILDINGS CONTAINS TWO PARALLEL BUILDINGS WITH A FENCED AREA IMMEDIATELY WEST OF THE SMALLER BUILDING. HAZE PRECLUDES FURTHER INTERPRETATION OF THE LAUNCH AREA.

25X1

RAMOYE IRBM LAUNCH SITE 6426N 03418E

THE SITE, COVERED BY EXCELLENT QUALITY CLOUD-FREE STEREO PHOTOGRAPHY, APPEARS TO BE INACTIVE. NO VEHICLES OR MISSILE-RELATED EQUIPMENT VISIBLE. ROADS IN THE AREA ARE SNOW COVERED AND NO TRACKAGE IS IDENTIFIABLE. SIGNIFICANT DETAILS, NOT PREVIOUSLY REPORTED, INCLUDE A TRAVERSING CRANE IMMEDIATELY BEHIND THE SMALL DRIVE-THROUGH BUILDING ON THE SITE ACCESS ROAD, TWO SHIELD WALLS BETWEEN EACH OF THE PAIRS OF PAD CLEARINGS INSTEAD OF THE TYPICAL CONTROL BUNKER FOUND AT THE OTHER IRBM SITES, AND A SMALL STICK-MAST LOCATED ADJACENT TO THE LEFT FORWARD EDGE OF THE PAD CLEARING ALIGNED WITH THE SMALL DRIVE-THROUGH BUILDING.

20

TOP SECRET CHESS RUFF

**TOP SECRET CHESS RUFF**

NPIC/R-201/64

BELOMORSK SAM SITE B 25-2 LOCATED IMMEDIATELY EAST OF THIS LAUNCH AREA IS INACTIVE. ALL THAT REMAINS OF THE SAM SITE IS THE PATTERN CUT IN THE FOREST, A FEW EMPTY REVETMENTS AND SOME TENT BASES.

25X1

25X1

[REDACTED]

KISHENTSY MRBM LAUNCH SITE 4900N 03013E

THIS TYPE IV LAUNCH SITE IS COVERED BY EXCELLENT CLOUD-FREE NON-STEREO PHOTOGRAPHY.

THE IDENTIFICATION OF FOUR PROBABLE MISSILE TRANSPORTERS IN THE VICINITY OF THE SILOS AND THE APPARENT SIMILARITY OF ALL FOUR COVERS INDICATES THAT THERE ARE PROBABLY FOUR MISSILE SILOS AT HARDENED MRBM LAUNCH SITES.

LAUNCH SITE -- ALL FOUR SILO COVERS ARE CLOSED AND ARE SIMILAR IN SIZE. HOWEVER, THEY APPEAR DIFFERENT IN SIZE AND CONFIGURATION FROM THOSE OBSERVED AT HARDENED IRBM LAUNCH SITES. THESE ARE RECTANGULAR, MEASURING APPROXIMATELY 135 BY 60 FT, AND APPEAR TO HAVE A SLIGHTLY GABLED TOP SURFACE. THE TYPICAL SILO COVER TRACKS OBSERVED AT OTHER HARDENED LAUNCH SITES ARE NOT READILY IDENTIFIABLE. THIS IS PROBABLY DUE TO SNOW COVER. LACK OF STEREO COVERAGE LIMITS INTERPRETATION OF THE SILO COVERS.

A PROBABLE MISSILE TRANSPORTER, APPROXIMATELY 65 BY 10 FEET, IS POSITIONED NEAR THE LEFT FORWARD SILO. PARKED PARALLEL TO EACH OTHER AND POSITIONED FORWARD OF THE LEFT FRONT SILO IN A CLEARING ARE THREE EMPTY PROBABLE MISSILE TRANSPORTERS MEASURING APPROXIMATELY 65 BY 10 FEET.

THE CENTRAL SERVICE ROAD EXTENDS OVER THE CONTROL BUNKER THROUGH THE SECURITY FENCE AND TO THE EDGE OF THE FOREST. AT LEAST EIGHT SMALL UNIDENTIFIED STRUCTURES ARE PRESENT IN THE VICINITY OF THE CONTROL BUNKER. A LARGER GABLE-ROOFED BUILDING IS LOCATED IMMEDIATELY OUTSIDE OF THE LAUNCH SITE SECURITY FENCE.

SITE SUPPORT FACILITY -- THE SITE SUPPORT FACILITY CONSISTS OF AT LEAST 25 BUILDINGS AND INCLUDES BARRACKS, ADMINISTRATION BUILDINGS, A HEATING PLANT

21

**TOP SECRET CHESS RUFF**

TOP SECRET CHESS RUFF

NPIC/R-201/64

AND A MOTOR POOL WITH MORE THAN 30 VEHICLES VISIBLE.  
(ATTACHMENT 8)

[REDACTED]

25X1

25X1

[REDACTED]

KAPUSTIN YAR LAUNCH COMPLEX B 4841N 04616E

25X1

THE ONLY APPARENT CHANGE SINCE MISSION [REDACTED] OBSERVED ON OBLIQUE PHOTOGRAPHY IS THE ADDITION OF AN OVERHEAD TRANSFER CRANE BEHIND THE POSSIBLE TWIN-CYLINDER MISSILE LAUNCHER IN LAUNCH AREA B3.

[REDACTED]

25X1

25X1

[REDACTED]

KAPUSTIN YAR LAUNCH COMPLEX C 4836N 04616E

CLOUDS AND OBLIQUITY PRECLUDE INTERPRETATION OF LAUNCH AREAS AT COMPLEX C (SITES 2, 4, 5, 6, 7, 8, 9). EACH OF THE TWO WARHEAD ASSEMBLY CHECKOUT AREAS ALONG THE ROAD TO THE LAUNCH AREAS HAS BEEN ENLARGED WITH THE ADDITION OF A SIMILAR OR IDENTICAL REVETTED HIGH BAY BUILDING WITH LOWER OFFSET EXTENDED ENTRANCES AT BOTH ENDS. THE ADMINISTRATION AND HOUSING AREAS HAVE BEEN ENLARGED BY THE ADDITION OF AT LEAST 12 BUILDINGS SINCE MISSION [REDACTED] TWENTY BUILDINGS HAVE BEEN ADDED IN THE SSM BIVOUAC AREA NW OF THE ADMINISTRATIVE AND HOUSING AREAS. VEHICLES/PIECES OF EQUIPMENT ARE PARKED IN THIS BIVOUAC AREA.

25X1

THE PROBABLE ASSEMBLY AND CHECKOUT FACILITY LOCATED APPROXIMATELY 5 NM NNW OF THE ADMINISTRATION AND HOUSING AREAS AND CONNECTED TO LAUNCH COMPLEX C BY RAIL HAS TWO NEW BUILDINGS SINCE MISSION [REDACTED] ONE IS A ROAD-SERVED DRIVE-THROUGH BUILDING AND THE OTHER IS PROBABLY RAIL-SERVED. THE LARGER DRIVE-THROUGH BUILDING IS A HIGH BAY BUILDING WITH LOWER EXTENSIONS ON BOTH ENDS.

25X1

25X2

25X2

25X2

[REDACTED]

25X1

**TOP SECRET CHESS RUFF**

NPIC/R-201/64

25X1



25X1

[REDACTED] KAPUSTIN YAR LAUNCH COMPLEX A 4842N 04615E

NO APPARENT CHANGE IN FACILITIES IN THE LAUNCH AREA.

THREE NEW BUILDINGS HAVE BEEN ADDED TO LAUNCH COMPLEX A SUPPORT AREA SINCE MISSION [REDACTED] ONE NEW BUILDING HAS BEEN ADDED IN THE ASSEMBLY AND CHECKOUT AREA NW OF THE SUPPORT AREA. APPROXIMATELY 15 VEHICLES/OBJECTS ARE OBSERVED PARKED WITHIN THE FENCES. THE SA-2 SITE OBSERVED ON MISSION [REDACTED] IS NOW OCCUPIED. THE TROOP TRAINING AREA APPROXIMATELY ONE NM NW OF LAUNCH COMPLEX A HAS BEEN ENLARGED SINCE MISSION [REDACTED] WITH THE ADDITION OF 11 BUILDINGS, INCLUDING 7 BARRACKS-TYPE. THE ASSOCIATED VEHICLE PARKS ARE OCCUPIED BY AT LEAST 200 VEHICLES OR PIECES OF EQUIPMENT.

25X1

25X1

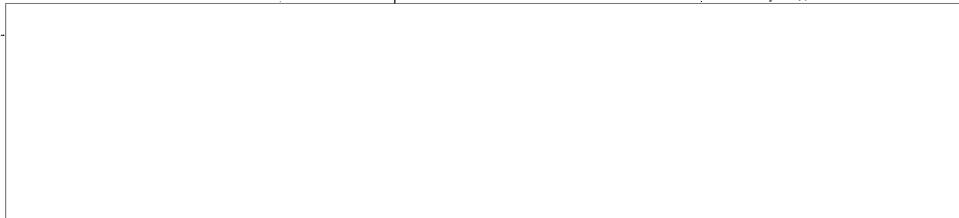


25X1

[REDACTED] KAPUSTIN YAR LAUNCH COMPLEX E 4846N 04618E

SNOW HAS BEEN PARTIALLY CLEARED FROM THE PAD AND ACCESS ROAD AT COMPLEX E (SITE 3). NO APPARENT CHANGE IN FACILITIES SINCE MISSION [REDACTED]

25X1



25X1

25X1

25X1

25X1

## TOP SECRET CHESS RUFF

NPIC/R-201964

## INSTRUMENTATION SITES, AND SEVERAL UNIDENTIFIED AREAS.

THE HAMMAGUIR AIRFIELD CONSISTS OF TWO RUNWAYS, ONE APPROXIMATELY 9,800 BY 160 FEET ORIENTED IN A 090/270 DIRECTION, AND ONE APPROXIMATELY 5,900 BY 100 FEET ORIENTED IN A 065/245 DIRECTION. BOTH RUNWAYS APPEAR TO BE ASPHALT, WITH POSSIBLE CONCRETE THRESHOLDS AT THE ENDS OF THE LARGER RUNWAY. THE AIRFIELD SUPPORT AREA, IMMEDIATELY ADJACENT TO THE NORTHEAST PORTION OF THE SMALLER RUNWAY, IS COMPOSED OF TWO LARGE ASPHALT PARKING AREAS, TWO LARGE HANGARS, AND THREE SMALLER HANGARS. A POSSIBLE OPERATIONS BUILDING AND A POSSIBLE CONTROL TOWER ARE ALSO LOCATED IN THIS AREA. ONE LARGE CARGO-TYPE AIRCRAFT AND FOUR SMALLER POSSIBLE LIAISON TYPE AIRCRAFT ARE OBSERVED IN THE PARKING AREA.

THE BASE SUPPORT AREA IS LOCATED APPROXIMATELY 1.5 NM NORTHEAST OF THE AIRFIELD. THIS FENCED AREA IS COMPOSED OF NUMEROUS BARRACKS, SEVERAL UNDER CONSTRUCTION, ONE LARGE HANGAR-TYPE BUILDING, POSSIBLY ASSOCIATED WITH MAINTENANCE OR REPAIR, ONE LARGE WATER TOWER WITH TWO POSSIBLY ASSOCIATED WATER STORAGE TANKS, FOUR LARGE POSSIBLE ADMINISTRATIVE BUILDINGS, TWO LARGE MULTI-STORIED BUILDINGS, POSSIBLY A HOTEL OR BOQ, POSSIBLE RECREATIONAL FACILITIES, AND NUMEROUS UNIDENTIFIED STRUCTURES. THIS BASE AREA IS LINKED TO THE NEARBY AIRFIELD AND THE MISSILE TEST AREA TO THE SOUTH BY A WELL CONSTRUCTED MACADAM ROAD.

AN INTERFEROMETER IS LOCATED ON A MACADAM BASE APPROXIMATELY 6 NM SSW OF THE AIRFIELD. THE MACADAM BASE HAS A FOUR-POINTED STAR CONFIGURATION AND SUPPORTS 19 INSTRUMENTATION POINTS. A PROBABLE ELECTRONICS ASSOCIATED BUILDING, CONNECTED TO THE MAIN PORTION OF THE LAUNCH COMPLEX BY A SECONDARY ROAD AND A POSSIBLE CABLE SCAR, IS LOCATED TO THE NORTH.

THE SOUTHERNMOST LAUNCH AREA (A) APPROXIMATELY 6 NM SOUTH OF THE AIRFIELD, CONTAINS A LARGE POSSIBLE MISSILE GANTRY AND AN UNIDENTIFIED TOWER-LIKE STRUCTURE. SEVERAL ADDITIONAL UNIDENTIFIED STRUCTURES ARE LOCATED IN THIS AREA. THERE IS NO SIGN OF VEHICULAR ACTIVITY. THE SECOND LAUNCH AREA (B) IS LOCATED APPROXIMATELY THREE MILES TO THE NORTHEAST. THE SERVICE ROAD TO THIS LAUNCH AREA BRANCHES INTO A Y PATTERN WITHIN A FENCED AREA. THIS AREA CONTAINS TWO LAUNCH PADS AT THE TERMINUS OF THE SOUTHERN LEG OF

TOP SECRET CHESS RUFF

**TOP SECRET CHESS RUFF**

NPIC/R-201/64

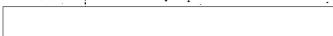
THE Y PATTERN. A GROUP OF BUILDINGS ARE LOCATED NEAR THE POINT OF INTERSECTION AND INCLUDE A T-SHAPED BUILDING, A LARGE DRIVE-IN BUILDING, AND THREE POSSIBLE DRIVE-IN BUILDINGS. THREE ADDITIONAL BUILDINGS ARE SITUATED ALONG THE EASTERN LEG.

A POSSIBLE LAUNCH AREA IS LOCATED APPROXIMATELY 2.5 NM SOUTH OF THE HAMMAGUIR AIRFIELD. THIS FENCED AREA CONTAINS THREE ADJACENT BUNKERED BUILDINGS, TWO POSSIBLE LAUNCH POINTS AND SEVERAL MISCELLANEOUS UNIDENTIFIED STRUCTURES.

LIMITED COVERAGE PRECLUDES A DETAILED INTERPRETATION OF THE BELL-SHAPED INSTRUMENTATION PATTERN.



(ATTACHMENTS 9, 10 & 11)



25X1

25X1



PEIPING RKT ENGINE TEST FAC CHANG-HSIN-TIEN 3950N 11608E

A SECURED FACILITY 12.6 NM WSW OF PEIPING CONTAINS THREE VERTICAL STATIC TEST STANDS, TWO OF WHICH ARE RAIL AND ROAD SERVED AND ONE OF WHICH IS ROAD SERVED ONLY, AND A ROAD-SERVED HORIZONTAL TEST SITE. NO NEW CONSTRUCTION OBSERVED SINCE MISSION [REDACTED]. THE LARGEST VERTICAL TEST STAND (NO 3) HAS TWO STRUTS SUPPORTING A HIGH SUPERSTRUCTURE OVERHANGING A RECTANGULAR BLAST PIT. A CONTROL BUILDING IS CONNECTED TO THE STAND BY A NARROW RAMP. A LARGE SUPPORT BUILDING AND A RECTANGULAR HARDSTAND ARE CONNECTED TO THE STAND BY A WIDE RAMP. THE MIDDLE TEST STAND (NO 2) HAS A TALL SUPERSTRUCTURE ABOVE A RECTANGULAR BLAST PIT. FOUR POSSIBLE RAIL CARS ARE ADJACENT TO A LARGE SUPPORT BUILDING NEAR THE TEST STAND. THE SMALLEST TEST STAND (NO 1) HAS A SQUARE SUPERSTRUCTURE EXTENDING SLIGHTLY OVER A SMALL BLAST PIT. THE ENTIRE STAND IS SURROUNDED BY A HARDSTAND. THE HORIZONTAL TEST SITE CONTAINS ONE SMALL RAMP-LIKE

25

**TOP SECRET CHESS RUFF**

25X1

25X1

TOP SECRET CHESS RUFF

NPIC/R-201/64

BLAST DEFLECTOR ADJACENT TO A SMALL RECTANGULAR  
HARDSTAND AND A SMALL SUPPORT BUILDING.

THE UNIDENTIFIED SECURED AREA 2 NM SSE CONTAINS FIVE  
LATTICE TOWERS AND A SYMMETRICAL ROAD NETWORK WITH  
THREE VEHICLES VISIBLE. THE FUNCTION OF THIS AREA CAN  
NOT BE DETERMINED.

(ATTACHMENT 12)

25X1

-25X1

PERM PROBABLE STATIC TEST FACILITY 5758N 05549E

WINGS HAVE BEEN ADDED TO ONE BUILDING IN THE TEST AREA  
SINCE MISSION

25X1

NINE RAIL CARS, ONE OF WHICH APPEARS TO BE  
LONGER THAN THE OTHERS, ARE IN THE TEST FACILITY.

25X1

25X1

SAYDA-GUBA PROBABLE NAVAL MISSILE STORAGE 6915N 03320E

NO APPARENT CHANGE IN FACILITIES SINCE MISSION

25X1

NO MISSILES OR ASSOCIATED EQUIPMENT IDENTIFIED.

25X1

25X1

25X1

SAYDA-GUBA SUBMARINE BASE 6915N 03321E

NO MISSILE-ASSOCIATED FACILITIES OR SUBMARINE PENS  
OBSERVED. NO APPARENT CHANGE IN FACILITIES SINCE  
MISSION

25X1

VESSELS -- ONE Z-CONVERSION-CLASS SSB, 3 G-CLASS SSB,  
ONE W/R-CLASS SS, 2 POSSIBLE LONGBIN-CLASS SS, ONE  
PROBABLE DON-CLASS AS, AND ONE 295-FT POSSIBLE ASL.

SEMIDARKNESS PRECLUDES POSITIVE IDENTIFICATION OF  
VESSELS.

25X1

TOP SECRET CHESS RUFF

NPIC/R-201/64

25X1

[Redacted]

OLENYA GUBA SUBMARINE BASE 6913N 03323E

25X1

NO APPARENT CHANGE IN FACILITIES SINCE MISSION [Redacted]

[Redacted]

25X1

VESSELS -- 4 G-CLASS SSB, 6 W/R-CLASS SS (ONE UNDERWAY) AND ONE POSSIBLE W/R-CLASS SS.

SEMIDARKNESS PRECLUDES POSITIVE IDENTIFICATION OF VESSELS.

[Redacted]

25X1

25X1

[Redacted]

POLYARNYY NAVAL BASE 6912N 03328E

NO MISSILE ACTIVITY OR SUBMARINE PENS OBSERVED.

VESSELS -- 11 F/Z-CLASS SS, 8 W/R-CLASS SS, 2 G-CLASS SSB, AND ONE POSSIBLE W/R-CLASS SS.

SEMIDARKNESS PRECLUDES POSITIVE IDENTIFICATION OF VESSELS.

[Redacted]

25X1

25X1

[Redacted]

PETROPAVLOVSK/KAMCHATSKIY SUBMARINE BASE 5255N 15830E

NO APPARENT CHANGE IN FACILITIES SINCE MISSION [Redacted]

[Redacted]

VESSELS -- 3 E-CLASS SSGN, 2 PROBABLE G-CLASS SSB, 11 W-CLASS SS, 2 DON-CLASS AS, 2 POSSIBLE ATREK ASL, ONE ICE BREAKER AND SEVERAL SMALL AUXILLIARIES.

ONE W-CLASS SS AND SEVERAL SMALL COMBATANTS ARE LOCATED AT PETROPAVLOVSK NAVAL BASE SELDEVAYA BAY. FOUR UNIDENTIFIED SUBMARINES OBSERVED AT PETROPAVLOVSK-KAMCHATSKIY SHIPYARD 412.

[Redacted]

25X1

25X1  
25X1

TOP SECRET CHESS RUFF

NPIC/R-201/64

25X1



PETROPAVLOVSK NAVAL MISSILE STORAGE 5256N 15823E

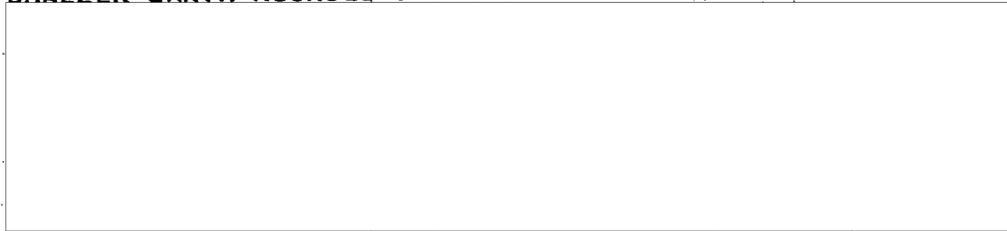
THE FACILITY IS LOCATED APPROXIMATELY 5 NM NORTHWEST OF THE PETROPAVLOVSK-KAMCHATSKIY SUBMARINE BASE, AND CONSISTS OF THREE STORAGE AREAS AND SUPPORT AREAS.

THE THREE STORAGE AREAS, SEPARATELY SECURED, ARE A MISSILE STORAGE AND HANDLING AREA, AN EXPLOSIVES STORAGE AREA, AND A PROBABLE

THE MISSILE STORAGE AND HANDLING AREA CONTAINS 10 LARGE EARTH-MOUNDED DRIVE-IN BUILDINGS (ONE UNDER CONSTRUCTION), THREE SMALLER EARTH-MOUNDED BUILDINGS AND A LARGE BUILDING WITH A LONGITUDINAL HIGH BAY CENTER SECTION. THE EXPLOSIVES STORAGE AREA CONTAINS THREE LARGE EARTH-MOUNDED DRIVE-IN BUILDINGS, ONE LARGE EARTH-MOUNDED DRIVE-THROUGH BUILDING AND FIVE SMALLER EARTH-MOUNDED DRIVE-IN BUILDINGS.

25X1  
25X1

25X2



FOR THE MAIN SUPPORT AREAS, INCLUDING THE PORT AREA, SEE PETROPAVLOVSK NAVAL MISSILE SUPPORT

25X1



25X1

25X1



PETROPAVLOVSK NAVAL MISSILE SUPPORT 5257N 15825E

THE SUPPORT AREAS INCLUDE TWO BARRACKS AREAS AND A PORT AREA.

THE TWO BARRACKS AREAS ARE LOCATED ALONG THE COASTLINE. THE NORTHERN AREA CONTAINS AT LEAST TEN LARGE BARRACKS-TYPE BUILDINGS AND FIFTEEN SUPPORT AND MISCELLANEOUS BUILDINGS. THE SOUTHERN CONTAINS TEN BARRACKS-TYPE BUILDINGS AND SEVERAL OTHER BUILDINGS.

## TOP SECRET CHESS RUFF

NPIC/R-201/64

THE PORT AREA CONSISTS OF TWO PIERS, A WHARF AND A SECURED STORAGE AREA. A LARGE FLOATING CRANE IS ADJACENT TO THE LARGER OF THE TWO PIERS. A POSSIBLE SUBMARINE IS LOCATED ON THE OPPOSITE SIDE OF THE PIER FROM THE CRANE.

25X1

[REDACTED]

[REDACTED] VLADIVOSTOK SUBMARINE BASE ULISA BAY 4304N 13155E

25X1

NO MISSILE HANDLING OR STORAGE FACILITIES NOTED.

VESSELS AT SUPPORT BASE -- ONE KOMAR-CLASS PGMG, 5 MV SUBMARINES, ONE W-CLASS SUBMARINE, 6 OSA-CLASS PGMG, 4 POSSIBLE OSA-CLASS PGMG UNDER CONSTRUCTION IN BOAT YARD, ONE CARGO VESSEL, AND SEVERAL SMALL AUXILIARIES.

VESSELS AT MOTOR TORPEDO BOAT BASE -- 7 KOMAR-CLASS PGMG AND 5 P-6 MTB, ALL BEACHED.

25X1

[REDACTED]

[REDACTED] PALA GUBA NAVAL BASE AND SHIP REPAIR YARD 6912N 03326E

25X1

NO SUBMARINE PENS OR MISSILE STORAGE/HANDLING EQUIPMENT OBSERVED.

VESSELS -- 3 POSSIBLE SS.

25X1

[REDACTED]

[REDACTED] ANTIPINSKOYE SAM ACTIVITY 5254N 11332E

25X1

THREE SAM SITES ARE STILL PRESENT IN THE CLEARED AREAS. THE CENTRAL GUIDANCE AREA OF EACH SITE APPEARS IDENTICAL AND CONSISTS OF TWO ROWS OF EQUIPMENT AND A PROBABLE GUIDANCE RADAR, PROBABLY NOT A FAN SCOP. THE ROW OF EQUIPMENT NEAREST THE RADAR APPEARS TO CONSIST OF TWO GROUPS OR MAJOR PIECES. PROBABLE CABLING CONNECTS THE RADAR TO EACH GROUP OR MAJOR PIECE IN THIS LINE OF EQUIPMENT.

AT EACH SITE IN THE CENTER CLEARED AREA, THE 6 LAUNCH POSITIONS APPEAR TO BE OCCUPIED BY PIECES OF EQUIPMENT

29

TOP SECRET CHESS RUFF

## TOP SECRET CHESS RUFF

NPIC/R-201/64:

APPROXIMATELY 20 FT LONG.

ON THE ROAD BETWEEN THE TWO SITES IN THE CENTER CLEARED AREA IS A ROW OF APPROXIMATELY EIGHT PROBABLE MISSILE TRANSPORTERS, APPROXIMATELY 20 FT LONG. IDENTICAL UNIDENTIFIED EQUIPMENT, PROBABLY VEHICLES, IS LOCATED BEHIND EACH SITE IN THE CENTER CLEARED AREA.

ALTHOUGH THERE IS EQUIPMENT PRESENT IN THE CENTER OF THE SITE IN THE NORTHERNMOST CLEARED AREA, THE LAUNCH POSITIONS ARE NOT APPARENT, AND MAY BE UNOCCUPIED. THERE IS LITTLE ADDITIONAL EQUIPMENT AROUND THIS SITE.

THE SMALL SUPPORT AREA, LOCATED AT THE SHARP BEND OF THE ROAD NORTH OF THE CLEARED AREAS CONTAINS ONE LARGE BUILDING, ONE SMALL BUILDING, AND SEVERAL OTHER PROBABLE STRUCTURES.

THE MAIN SUPPORT AREA, NEAR THE KONDA RIVER BRIDGE, IS HAZE-COVERED. THE TOWER LOCATED AT THE NORTHERN END OF THE BUILDING AREA IS VISIBLE.

MOTOR POOL AREA IS LOCATED TO THE EAST OF THE BUILDING AREA ON THE SOUTH BANK OF THE RIVER. IT CONTAINS NUMEROUS VEHICLES, ONE ROW CONTAINING APPROXIMATELY NINE APPARENT POWER GENERATOR VANS APPROXIMATELY 25 FT LONG.

ACROSS THE ROAD FROM THE MAIN BUILDING AREA, THERE IS ACTIVITY IN THE GROUP OF BUILDINGS FIRST REPORTED ON MISSION [REDACTED] THE BUILDINGS ARE DIVIDED INTO 2 DISTINCT GROUPS, ONE CONTAINING FOUR BUILDINGS AND ONE CONTAINING TWO BUILDINGS.

25X1

25X1

25X1

[REDACTED] SORTAVALA AREA, EARLY-WARNING RADAR SITE 6153N 03027E

THE FACILITY IS DIVIDED INTO A RADAR AREA AND A SUPPORT AREA. THE RADAR AREA IS COMPOSED OF FIVE RADAR MOUNDS, ONE LARGE CENTRALLY LOCATED CONTROL BUNKER, ONE CIRCULAR MOUND BY THE CONTROL BUNKER, 2 RECTANGULAR BUNKERS, BUILDINGS AND A RECTANGULAR TOWER OPPOSITE THE CONTROL BUNKER, ALL CONNECTED BY A ROAD. RADARS ARE NOT DISCERNIBLE.

30

TOP SECRET CHESS RUFF

**TOP SECRET CHESS RUFF**

NPIC/R-201/64

25X1

THE SUPPORT AREA IS COMPRISED OF APPROXIMATELY 20 BUILDINGS, 6 BARRACKS-TYPE AND 14 MAINTENANCE, STORAGE AND UTILITY TYPE BUILDINGS.

25X1

[REDACTED]

OLENEGORSK SAM SITE B02-3 6822N 03327E

THIS SA-3 SAM SITE HAS A C CONFIGURATION.

THE FOUR LAUNCH REVETMENTS AND GUIDANCE AREA APPEAR TO BE OCCUPIED. SEVEN VEHICLES ARE IN THE HOLD REVETMENT. AN ON-SITE SUPPORT FACILITY IS OBSERVED. POSSIBLE CHECK-POINT OBSERVED ON ROAD TO SITE BUT NO SECURITY FENCE IS VISIBLE.

25X1

25X1

[REDACTED]

OLENEGORSK SAM SITE B05-3 6815N 03338E

SITE IS A C CONFIGURATION SA-3 AND CONSISTS OF FOUR LAUNCH POSITIONS, A CENTRAL GUIDANCE AREA, A REVETTED DRIVE-THROUGH HOLD AREA, AND SUPPORT BUILDINGS, ALL ENCLOSED BY A PROBABLE SECURITY FENCE. THE FOUR LAUNCH POSITIONS ARE REVETTED AND EACH CONTAINS A PROBABLE LAUNCHER. THE CENTRAL GUIDANCE AREA IS OCCUPIED BUT DETAILS OF THE PROBABLE GUIDANCE EQUIPMENT CAN NOT BE INTERPRETED. THE SUPPORT AREA CONSISTS OF AT LEAST SIX BUILDINGS -- TWO ARE PROBABLE BARRACKS AND ONE IS A VEHICLE SHED. THE FUNCTION OF THE OTHER THREE CAN NOT BE INTERPRETED.

25X1

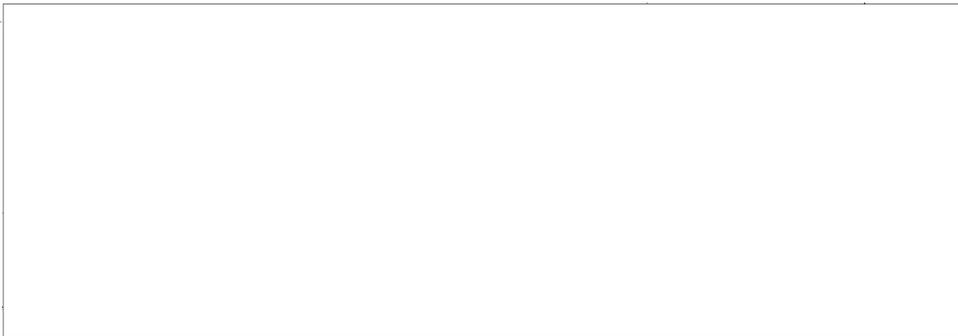
25X1

31

**TOP SECRET CHESS RUFF**

TOP SECRET CHESS RUFF

NPIC/R-201/64



25X1

25X1



VLADIVOSTOK SAM SITE A07-3 4307N 13202E

THIS SA-3 SAM SITE HAS AN F CONFIGURATION. NO EQUIPMENT OBSERVED. SEVERAL BUILDINGS JUST WEST OF LAUNCH AREA INDICATE AN ON-SITE SUPPORT FACILITY.

25X1



25X1



TYURATAM MSL TEST CTR SAM SITE B13B-2 4548N 06344E

SITE CONTAINS SIX DRIVE-THROUGH LAUNCH REVETMENTS AND ONE GUIDANCE AREA. LAUNCH AREAS APPEAR UNOCCUPIED.

HAZE AND SNOW PRECLUDE DETERMINATION OF CONFIGURATION.

25X1



25X1



PETROPAVLOVSK-KAMCHATSKIY SAM SITE B28A-2 5303N 15817E

SITE IS SNOW-COVERED. CONFIGURATION CANNOT BE DETERMINED. THREE LARGE PIECES OR GROUPS OF EQUIPMENT OBSERVED IN THE CENTER OF THE SITE.

25X1



25X1



PETROPAVLOVSK SUSPECT SAM SITE 5255N 15835E

NO SAM SITE VISIBLE.

25X1



**TOP SECRET CHESS RUFF**

NPIC/R-201/64

25X1

OLENEGORSK SAM SITE B01-3 6827N 03323E

THE PREVIOUSLY REPORTED SA-3 SAM SITE DOES NOT EXIST. A MICROWAVE TOWER WITH TWO HORNS IS LOCATED AT THESE COORDINATES. AT THE BASE OF THE TOWER IS AN SMALL BUILDING. THE FACILITY IS SECURED AND ROAD SERVED.

25X1

YOSHKAR-OLA ICBM COMPLEX SAM SITE B35-0 5644N 04806E

IDENTIFICATION ONLY.

25X1

ULYANOVSK SAM SITE B27-0 5418N 04802E

SIX LAUNCHERS EMPLACED. MISSILES NOT DISCERNIBLE. NO SAM SUPPORT FACILITY OBSERVED NEAR ULYANOVSK. INCOMPLETE COVERAGE.

25X1

MURMANSK SUSPECT SAM SITE C02-3 6923N 03327E

IDENTIFICATION ONLY.

25X1

MISSILE BONUS 1. VLADIVOSTOK SAM SITE A22-3 4258N 13148E

THIS F CONFIGURATION SA-3 SAM SITE APPEARS FULLY EQUIPPED AND OPERATIONAL. ALL FOUR LAUNCH REVETMENTS ARE OCCUPIED. TWO MISSILES APPROXIMATELY [REDACTED] LONG ARE LOCATED ON ONE LAUNCHER, AND POSSIBLY TWO MISSILES ON ANOTHER. ONE MISSILE IS LOCATED ON A THIRD LAUNCHER AND THE FOURTH LAUNCHER IS UNOCCUPIED.

25X1

THE CENTRAL GUIDANCE AREA IS BUNKERED. THE GUIDANCE RADAR IS LOCATED ON TOP OF THE BUNKER. A PROBABLE COVERED VAN/TRAILER IS LOCATED IN THE MISSILE HOLD.

**TOP SECRET CHESS RUFF**

NPIC/R-201/64

AREA.

25X1

[REDACTED]

**MISSILE BONUS 2. YOSHKAR-OLA SAM ASSEMBLY AND STORAGE 5628N 04809E**

**13.5 NM SE OF YOSHKAR-OLA AND IMMEDIATELY NE OF SUROK.**

**THIS INSTALLATION CONSISTS OF THREE SECURED, RAIL-SERVED AREAS.**

**AREA A CONTAINS AT LEAST 170 SAM TRANSPORTERS, 55 UNIDENTIFIED PROBABLE VEHICLES, 11 BUILDINGS, AND SEVEN POSSIBLE CRATES.**

**AREA B CONTAINS AT LEAST 17 LARGE MISSILE-STORAGE-TYPE BUILDINGS, AT LEAST 60 SAM TRANSPORTERS, APPROXIMATELY 30 UNIDENTIFIED OBJECTS, AND AN UNDETERMINED NUMBER OF POSSIBLE MISSILE TRANSPORTERS. AREA C IS A SECURED STORAGE AREA CONTAINING APPROXIMATELY 12 BUILDINGS.**

**(ATTACHMENT 13)**

[REDACTED]

**AIR FACILITIES**

**USSURIYSK/VOZDVIZHENKA AIRFIELD 4355N 13156E**

**AIRCRAFT -- 22 BADGER, ONE COLT, ONE CAB, 2 BULL WITHOUT OUTBOARD WING SECTIONS ON HARDSTANDS OFF LOOP TAXIWAY, 4 FITTER ON TAXIWAY, 2 FITTER, ONE UNIDENTIFIED SWEEP-WING FIGHTER ON SMALL APRON OFF LOOP TAXIWAY, AND 10 FITTER NEAR HANGAR IN MAINTENANCE AREA.**

**NO NEW CONSTRUCTION ACTIVITY OBSERVED.**

**SCATTERED CLOUDS PRECLUDE DEFINITE AIRCRAFT COUNT.**

[REDACTED]

**SANA AIRFIELD SOUTH (YEMEN) 1531N 04411E**

**LOCATED 2 NM SSW OF SANA.**

34

**TOP SECRET CHESS RUFF**

25X1

25X1

25X1

## TOP SECRET CHESS RUFF

NPIC/R-201/64

7,300 X 150 FT N/S SERVICEABLE ASPHALT RUNWAY AND  
A 800 X 170 FT ASPHALT PARKING APRON.

AIRCRAFT -- 8 POSSIBLE HOUND (ONE WITHOUT ROTOR  
BLADES), 2 CRATE, ONE POSSIBLE COLT, AND 28  
PROBABLE DERELICTS.

(ATTACHMENT 14)

25X1

25X1

RAWDAH AIRFIELD (YEMEN) 1538N 04412E

APPROXIMATELY 5 NM NORTH OF SANA, 9,960 X 150 FT N/S  
SERVICEABLE ASPHALT RUNWAY WITH PARALLEL TAXIWAY AND  
2 CROSSOVER LINKS. SINGLE PARKING APRON AND SUPPORT  
AREA ARE LOCATED ON THE SE END OF THE FIELD. ENGINEER  
CONSTRUCTION EQUIPMENT PARK LOCATED ON THE EAST  
EDGE OF THE FIELD CONTAINS CONSTRUCTION EQUIPMENT.  
SIX 4-GUN OCCUPIED AAA SITES AND TWO PROBABLE 4-GUN  
UNOCCUPIED AAA SITES OBSERVED ADJACENT TO AIRFIELD.

AIRCRAFT -- 11 FAGOT/FRESCO AND SIX UNIDENTIFIED  
SINGLE-ENGINE, STRAIGHT-WING AIRCRAFT.

(ATTACHMENT 15)

25X1

PETROPAVLOVSK/YELIZOVO AIRFIELD 5310N 15827E

NO NEW CONSTRUCTION OR MISSILE ACTIVITY DISCERNIBLE.

AIRCRAFT -- 9 UNIDENTIFIED STRAIGHT-WING PROBABLE  
TRANSPORTS AND ONE CAMEL/BADGER IN TERMINAL AREA  
WEST OF RUNWAY, 3 CAMEL/BADGER ON HARDSTANDS WEST OF  
RUNWAY, 4 UNIDENTIFIED STRAIGHT-WING PROBABLE  
TRANSPORTS AND 9 POSSIBLE HELICOPTERS IN AREA  
IMMEDIATELY WEST OF TAXIWAY AT SOUTHERN END OF FIELD,  
4 UNIDENTIFIED SWEEP-WING FIGHTERS ON TAXIWAY AT SOUTH  
END OF FIELD, 28 UNIDENTIFIED SWEEP-WING FIGHTERS,  
4 STRAIGHT-WING AIRCRAFT, AND 2 HELICOPTERS ON PARKING  
AREA EAST OF RUNWAY.

25X1

35

TOP SECRET CHESS RUFF

**TOP SECRET CHESS RUFF**

**NPIC/R-201/64**

25X1



**PETROPAVLOVSK/OZERO KHALAKHTYRKA SEAPLANE STA 5302N 15845E  
FIFTEEN POSSIBLE UNIDENTIFIED STRAIGHT-WING AIRCRAFT  
OBSERVED ON AIRFIELD IMMEDIATELY WEST OF SEAPLANE  
STATION.  
NO NEW CONSTRUCTION DISCERNIBLE.**

25X1



25X2



25X1  
25X1

25X1



25X1

**TOP SECRET CHESS RUFF**

TOP SECRET CHESS RUFF

NPIC/R-201/64

AND PERMITS MORE COMPLETE IDENTIFICATION OF PIPELINES, STEAM LINES, ELECTRIC POWER SUPPLY AND TRANSPORTATION THROUGHOUT COMPLEX. NO SIGNIFICANT CHANGES APPARENT ELSEWHERE IN COMPLEX SINCE MISSION [REDACTED]

25X1

(ATTACHMENTS 16, 17 & 18)

[REDACTED]

25X1

25X1

[REDACTED]

BEREZNIKI CHEMICAL PLANT VOROSHILOV 3 5924N 05643E

THE SITE OF CHEMICAL PLANT VOROSHILOV 3 HAS BEEN IDENTIFIED ON THE EAST BANK OF THE PERM RESERVOIR IN THE CITY OF BERZNIKI. IT IS SURROUNDED BY A SECURITY FENCE WITH WATCH TOWERS. THE HEAVY WATER PLANT IS PROBABLY LOCATED TO THE EAST OF CENTER OF THE SECURED AREA AND APPEARS SOMEWHAT SIMILAR TO THE INSTALLATION AT CHIRCHIK. A RELATIVELY LOW STACK IS EMITTING HEAVY SMOKE. THREE EFFLUENCE OUTLETS ARE VISIBLE ALONG THE SHORELINE. THE TWO NORTHERN OUTLETS ARE DISCHARGING HEAVY FLOWS OF WATER. THE POWER PLANT SERVING THE CHEMICAL PLANT IS NORTH OF THE SECURITY FENCE AND IS EMITTING HEAVY SMOKE.

[REDACTED]

25X1

TOROPETS REGIONAL MIL STORAGE INSTALLATION 5622N 03139E  
IDENTIFICATION ONLY.

[REDACTED]

25X1

[REDACTED]

25X1

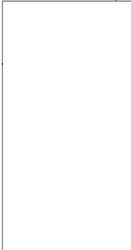
**TOP SECRET CHESSE RUFF**

25X2

NPIC/R-201/64



25X1



25X1

25X1

25X1



25X1

NAVAL ACTIVITY/PORTS

25X1



TALLINN NAVAL BASE & SHIPYARD MORSKOY ZAVOD 5927N 02444E

SHIPYARD APPEARS ACTIVE. [REDACTED]  
CONSTRUCTION OR MISSILE EQUIPPED NAVAL VESSELS  
OBSERVED.

25X2

VESSELS -- ONE W/R<sup>2</sup>CLASS SS AND 3 440-FT DD.



25X1

RIGA NAVAL BASE 5703N 02402E

NO EVIDENCE OF NAVAL COMBATANT CONSTRUCTION AT

**TOP SECRET CHESSE RUFF**

TOP SECRET CHESS RUFF

NPIC/R-201/64

RIGA SHIPYARD, BOLDERAYA.

NO MISSILE LAUNCHING EQUIPMENT OR HANDLING EQUIPMENT NOTED.

VESSELS AT NAVAL BASE -- 9 W/R-CLASS SS, 2 R-CLASS SS, AND ONE ASL.

[REDACTED]

25X1

NAVAL BONUS I. MAGADAN SHIP REPAIR YARD 5932N 15046E

VESSELS -- ONE W-CLASS AND 3 POSSIBLE W-CLASS SUBMARINES.

PROXIMITY TO EDGE OF PHOTOGRAPHY PRECLUDES DEFINITE IDENTIFICATION OF ALL SUBMARINES.

[REDACTED]

25X1

25X2

25X1

[REDACTED]

25X1

25X1

ELECTRONICS/COMMUNICATIONS

25X1

[REDACTED]

KHUTOR INTERFEROMETER SITE 5306N 15820E.

LOCATED 6 NM SW OF PETROPAVLOVSK/YELIZOVO AIRFIELD AT 53-06N 158-20E.

SITE CONSISTS OF AN INTERFEROMETER WITH AN ADJACENT TRACKING STATION CONTAINING AT LEAST 23 BUILDINGS. A HOUSING AND SUPPORT AREA TO THE NE CONTAINS APPROXIMATELY 50 BUILDINGS AND AN ADJACENT HF ANTENNA FARM CONTAINS AN UNDETERMINED NUMBER OF RHOMBIC AND PROBABLE FISHBONE ANTENNAS. A PROBABLE TRACKING STATION WITH AN ADJACENT PROBABLE HF COMMUNICATIONS

TOP SECRET CHESS RUFF

## TOP SECRET CHESS RUFF

NPIC/R-201/64

FACILITY IS LOCATED EAST OF THIS SUPPORT AREA. QUALITY OF PHOTOGRAPHY AND OBLIQUITY PRECLUDE ANTENNA AND MOBILE EQUIPMENT IDENTIFICATION.

A KRUG ANTENNA IS LOCATED ABOUT .5 NM ESE OF THE TRACKING STATION.

25X1

25X1

[REDACTED]

TALLINN AIR DEFENSE ZONE HQ 5925N 02444E

RADAR SITE WITH COVERED ANTENNA AND 3 VANS ON NORTH CENTRAL SIDE OF TALLIN LASNAMAE AIRFIELD AND 28 SWEEP-WING FIGHTERS INDICATE THE FIELD IS INVOLVED IN AIR DEFENSE. HOWEVER, NO FEATURES THAT CAN BE SPECIFICALLY COMPARED TO SWAMP OR MARKHAM OBSERVED.

25X1

[REDACTED]

BARANOVICHI AIR DEFENSE ZONE HEADQUARTERS 5307N 02601E

NO AIR DEFENSE ELECTRONIC FACILITIES OBSERVED.

25X1

[REDACTED]

TYURATAM OUTSTATION 012E 5017N 07145E

FACILITIES CONSIST OF A SUPPORT AND POSSIBLE OPERATIONS AREA WITH APPROXIMATELY 25 STRUCTURES AND A SEGMENT OF A CIRCULAR GROUND PATTERN. A POSSIBLE INSTRUMENTATION/COMMUNICATIONS AREA IS LOCATED 4,600 FT SE OF THE SUPPORT AREA.

HAZE PRECLUDES DETAILED INTERPRETATION.

25X1

25X1

[REDACTED]

YOSHKAR-OLA OPTICAL PLANT KAGANOVICH 297 5638N 04752E

AN INDUSTRIAL COMPLEX OR POSSIBLY THREE SEPARATE PLANTS COVER APPROXIMATELY ONE SQ MI AND CONSISTS OF AT LEAST FIVE LARGE ASSEMBLY SHOPS/BUILDINGS, 14 MAJOR BUILDINGS AND NUMEROUS SMALLER BUILDINGS. A CENTRALLY LOCATED STEAM PLANT SERVES THE COMPLEX. TWENTY-THREE

40

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

NPIC/R-201/64

TRUCKS AND SEVERAL PIECES OF UNIDENTIFIED EQUIPMENT  
ARE PARKED IN A SECURED AREA SE OF THE STEAM PLANT.

QUALITY OF PREVIOUS PHOTO COVERAGE PRECLUDES  
COMPARATIVE INTERPRETATION.

25X1

[REDACTED]

OTHER ACTIVITY

25X1

[REDACTED]

HA-MI UNUSUAL GROUND PATTERN (CH) 4305N. 09255E

NO APPARENT CHANGE SINCE MISSION [REDACTED]

25X1

[REDACTED]

25X1

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

NPIC/R-201/64  
ATTACHMENT 1



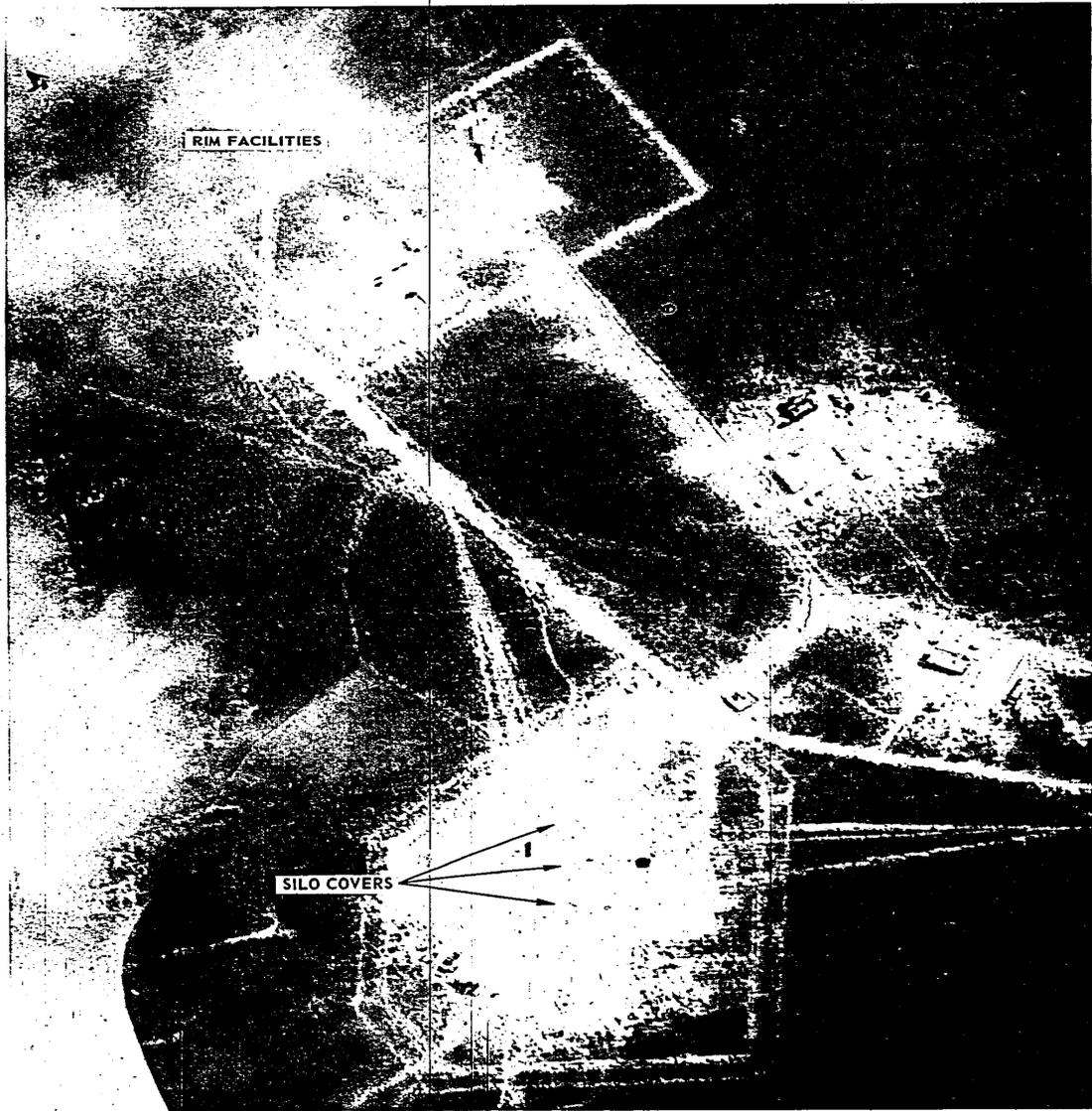
NPIC H-8696 (3/64)

YURYA ICBM LAUNCH AREA D

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

NPIC/R-201/64  
ATTACHMENT 2



YURYA ICBM LAUNCH AREA E

NPIC H-8697 (3/64)

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

NPIC/R-201/64  
ATTACHMENT 3



YURYA ICBM LAUNCH AREA F

NPIC H-8898 (9/64)

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

NPIC/R-201/64  
ATTACHMENT 4



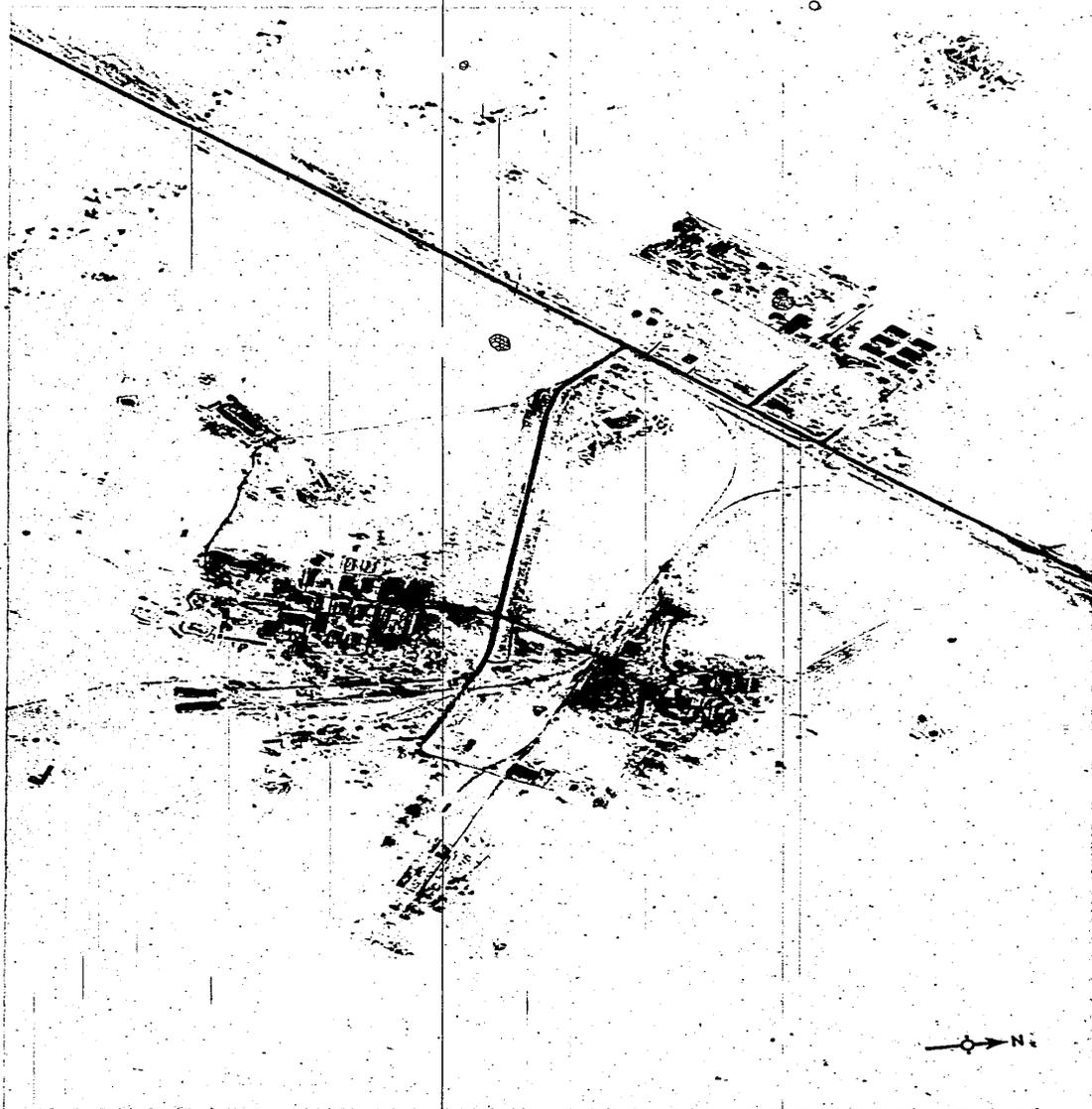
YURYA ICBM LAUNCH AREA 1

NPIC H-8699 (3/64)

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

NPIC/R-201/64  
ATTACHMENT 5



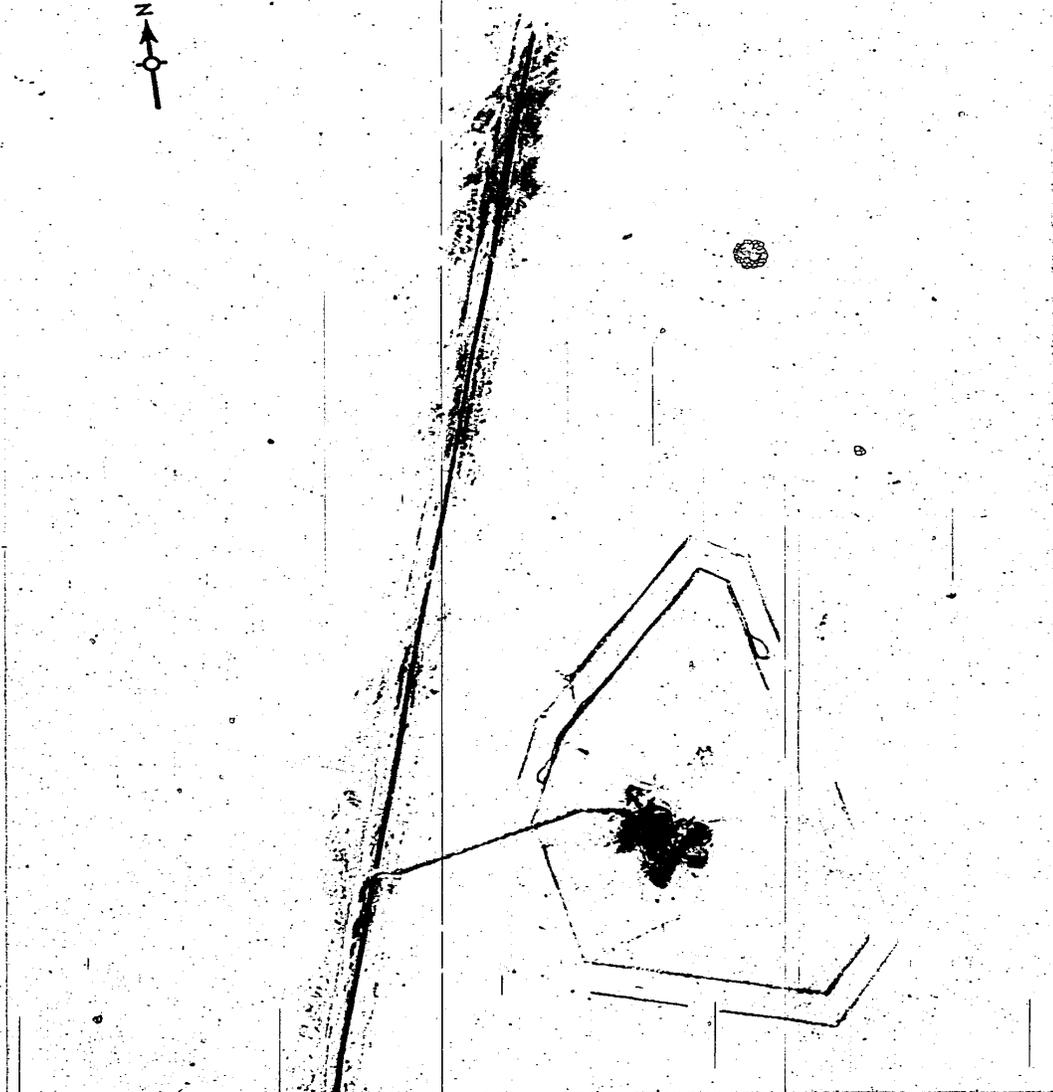
CENTRAL SUPPORT FACILITY, TYURATAM MISSILE TEST CENTER

NPIC H-8708 (3/64)

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

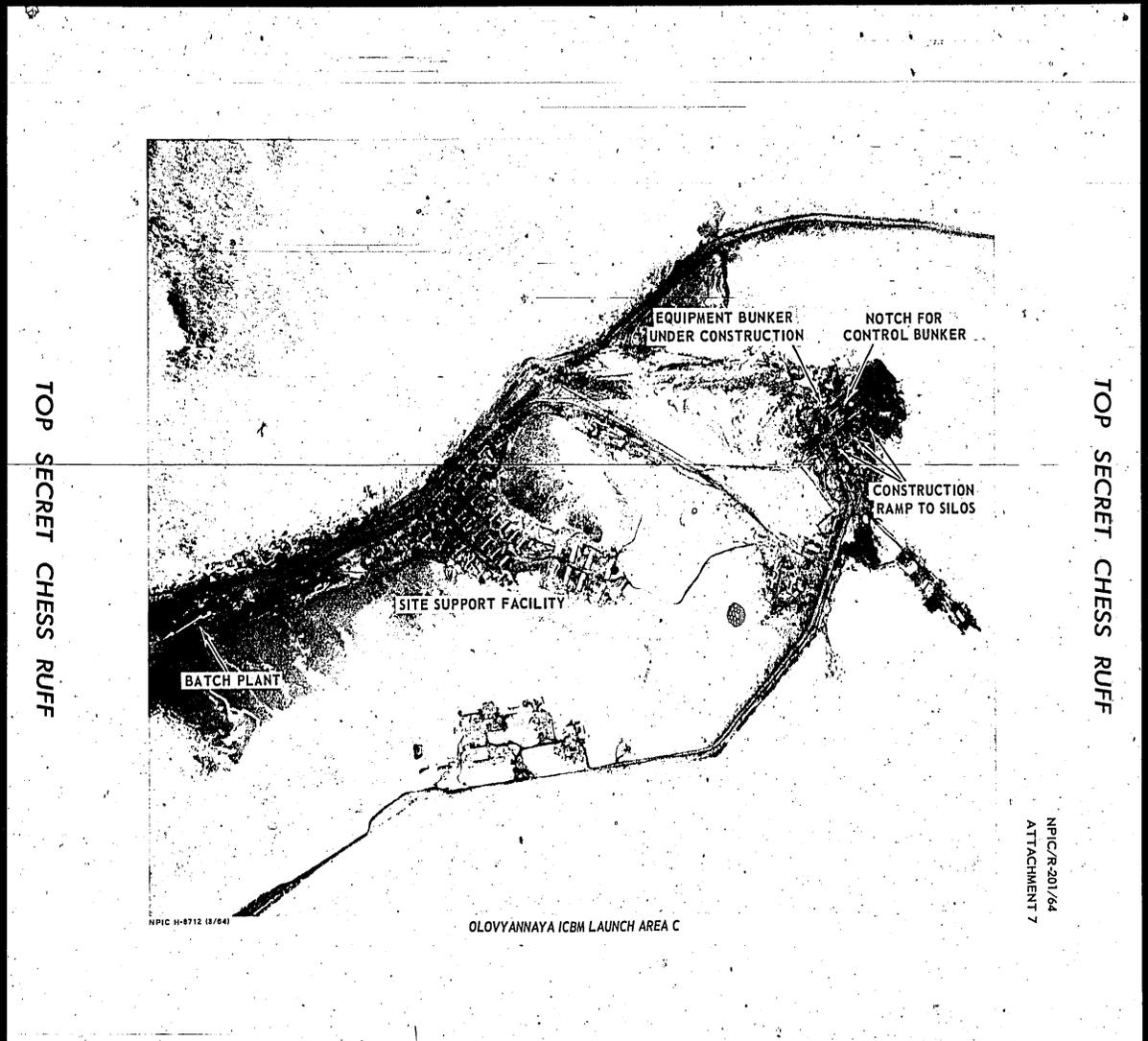
NPIC/R-201/64  
ATTACHMENT 6



UNIDENTIFIED CONSTRUCTION ACTIVITY, TYURATAN MISSILE TEST CENTER

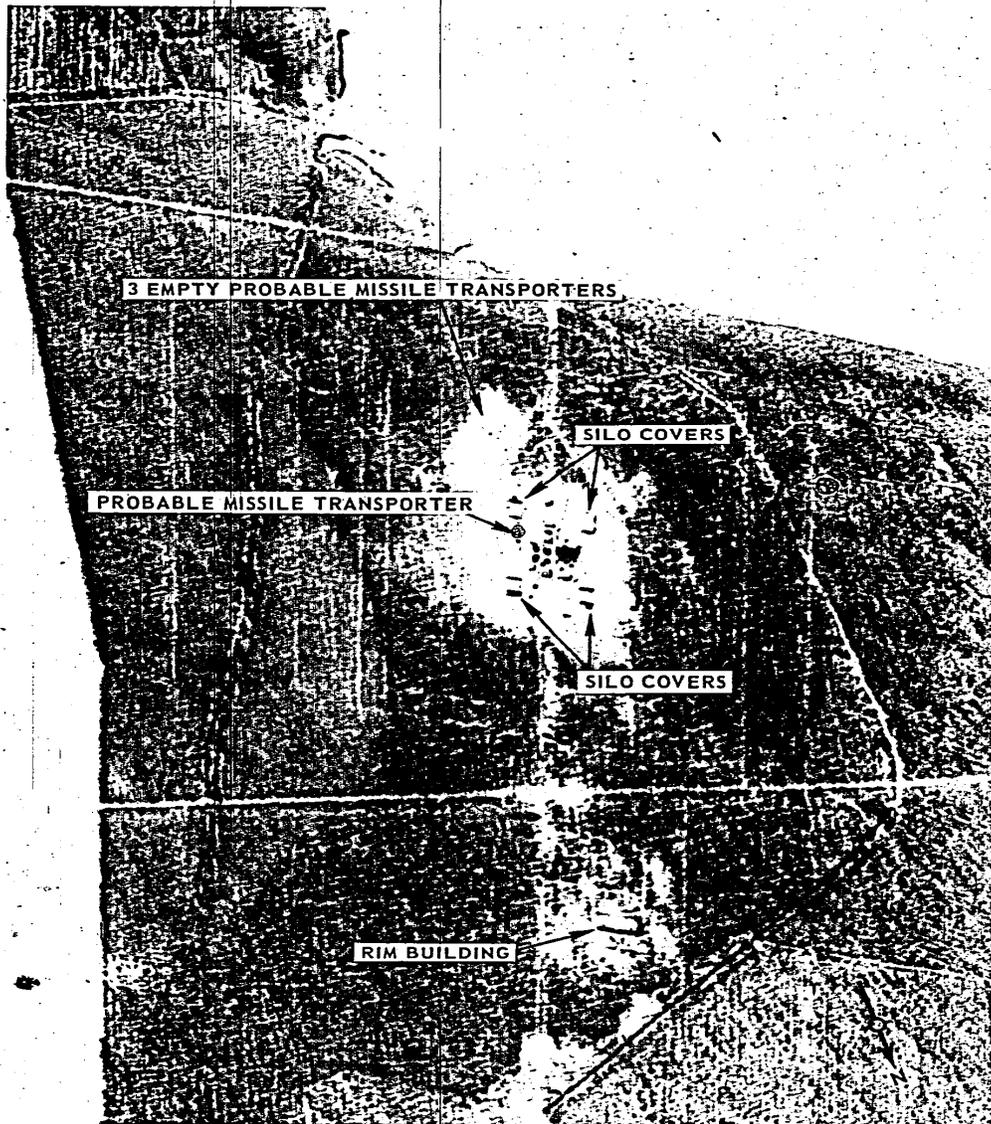
NPIC H-8707 (9/64)

TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF

NPIC/R-201/64  
ATTACHMENT 8



KISHENTSY MRBM LAUNCH SITE

NPIC H-8688 (3/64)

TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

NPIC/R-201/64  
ATTACHMENT 12

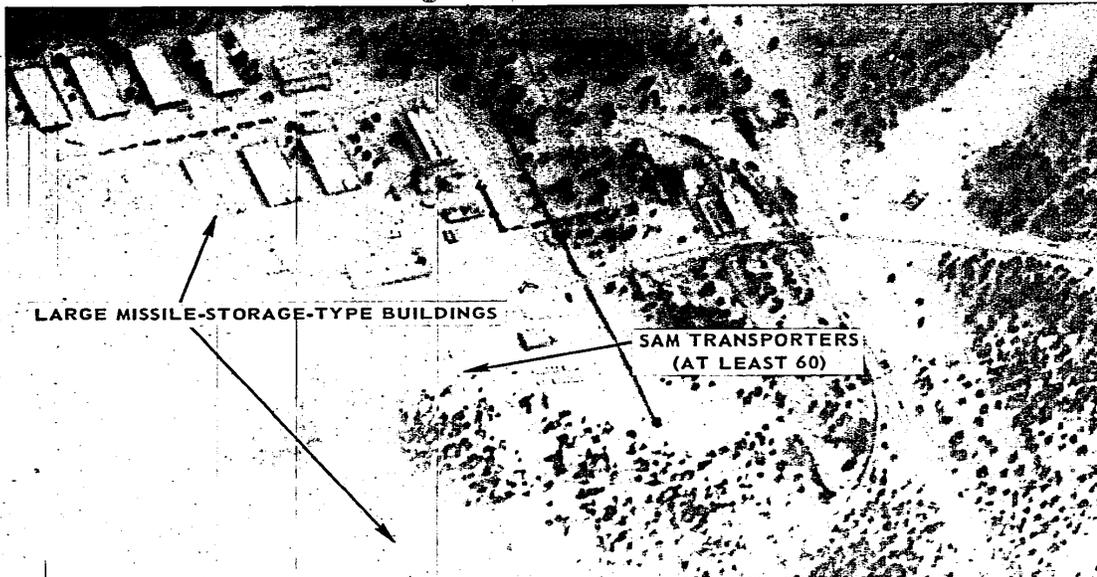
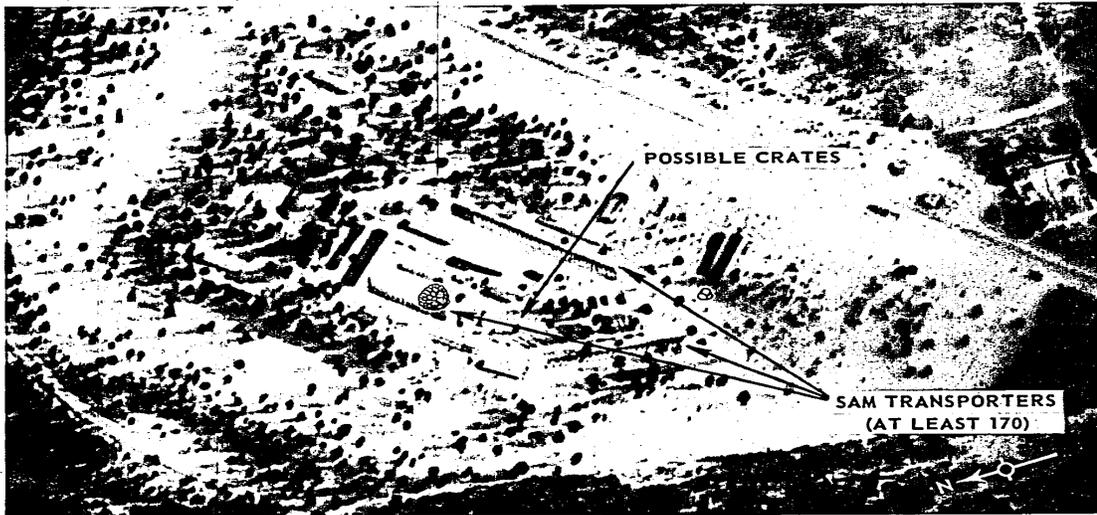


ROCKET ENGINE TEST FACILITY, PEIPING, CHINA

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

NPIC/R-201/64  
ATTACHMENT 13



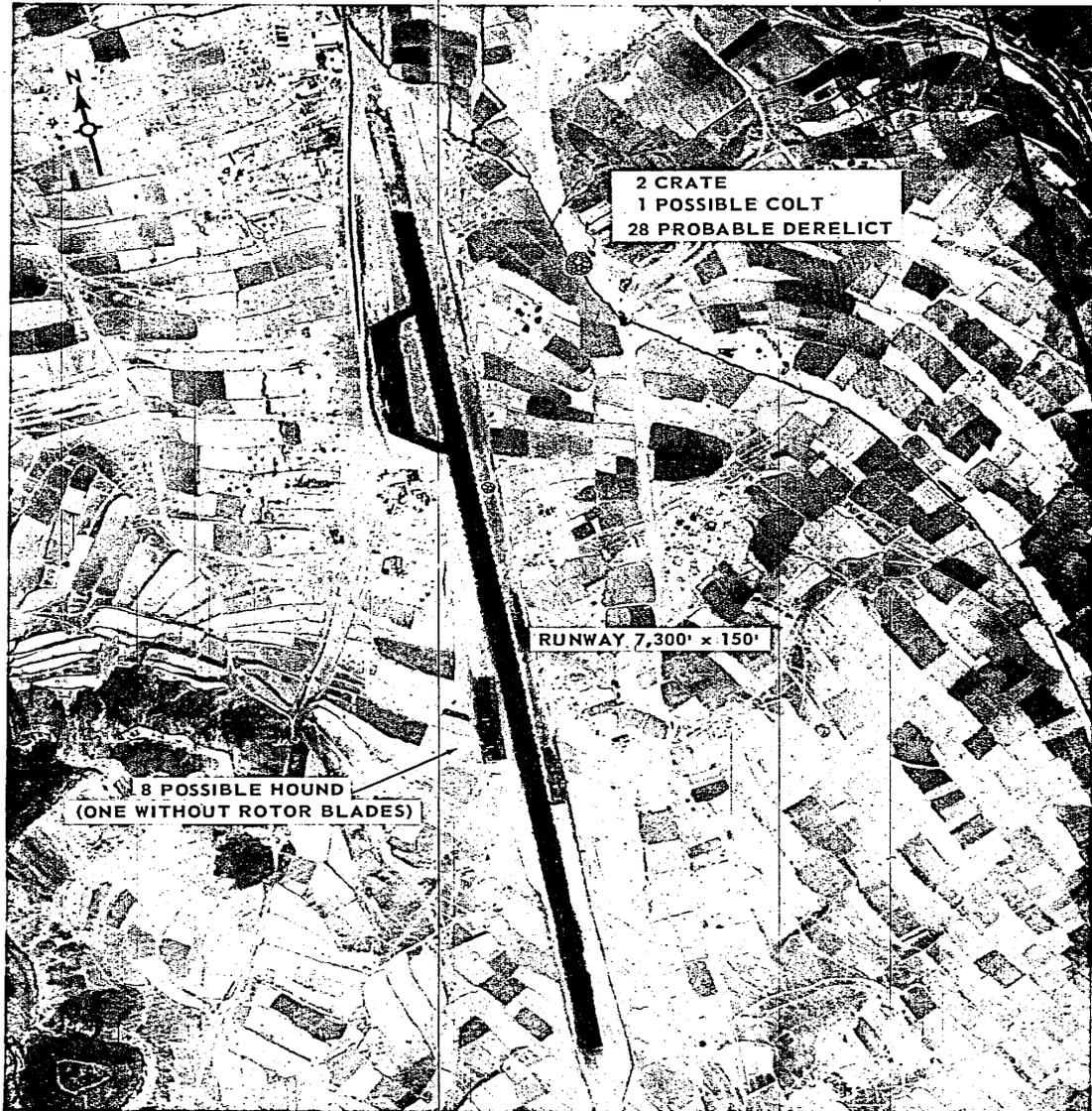
SAM ASSEMBLY AND STORAGE INSTALLATION, YOSHKAR-OLA

NPIC H-8702 (3/64)

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

NPIC/R-201/64  
ATTACHMENT 14



2 CRATE  
1 POSSIBLE COLT  
28 PROBABLE DERELICT

RUNWAY 7,300' x 150'

8 POSSIBLE HOUND  
(ONE WITHOUT ROTOR BLADES)

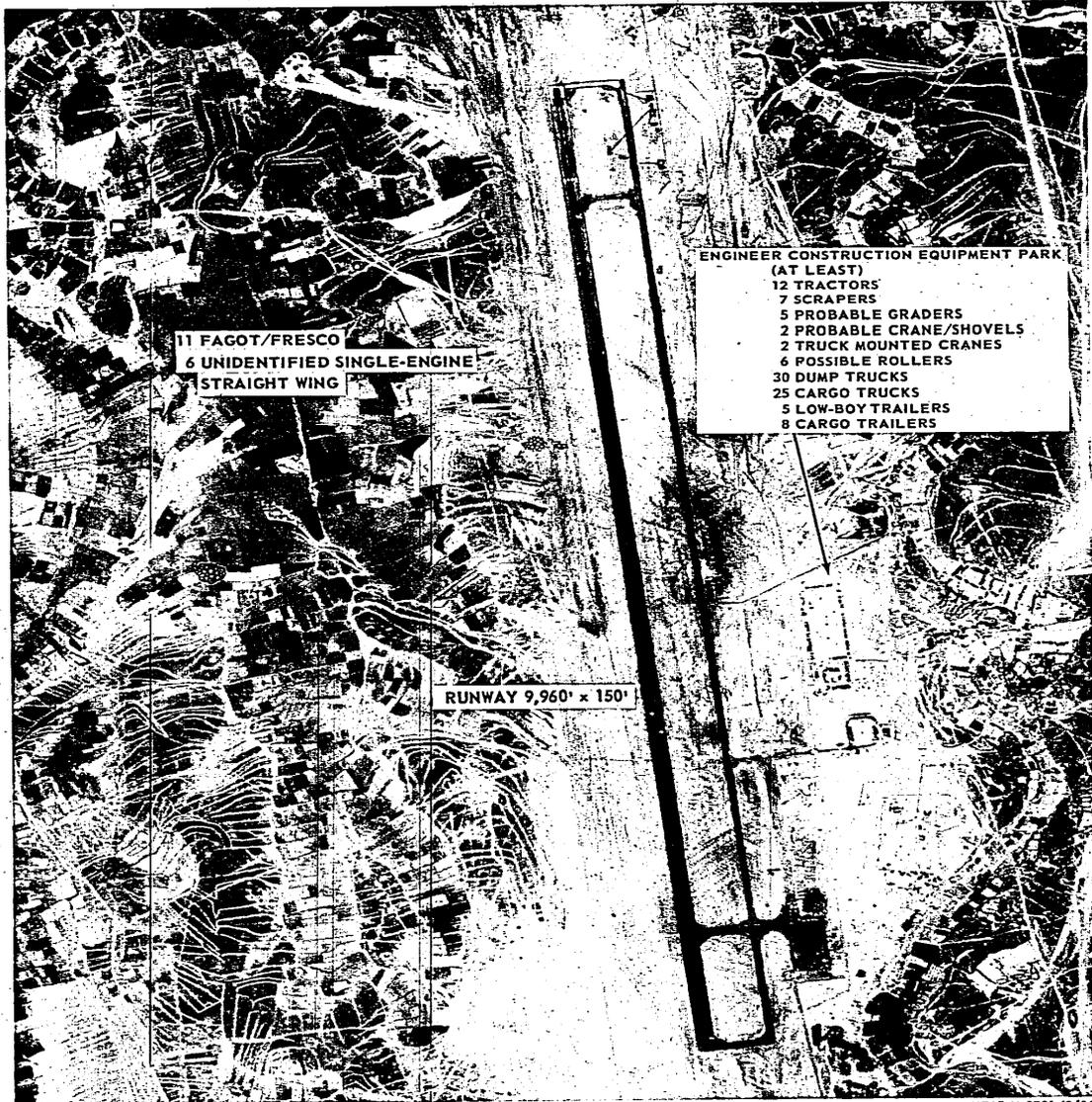
SANA AIRFIELD SOUTH, YEMEN

NPIC H-8700 (3/64)

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

NPIC/R-201/64-  
ATTACHMENT 15



TOP SECRET CHESS RUFF

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